Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

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1.4 scala-compiler 2.13.3

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1.5 libsepol 2.9-3.el8

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1.6 jline-terminal 3.15.0
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darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
lightyellow3
grey84
lightsteelblue1
yellow2
darkolivegreen1
darkolivegreen1a
darkseagreen1a
honeydew2
lightcyan1
red1
deeppink2
deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
hotpink
hotpinka
mediumorchid1a
darkorange
salmon1
lightcoral
palevioletred1
orchid2
orchid1
orange1
sandybrown
lightsalmon1
lightpink1
pink1
plum1
gold1
lightgoldenrod2a
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* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/spi/JnaSupport.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/Display.java
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* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-
jar/org/jline/terminal/spi/JansiSupport.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/Log.java
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* /opt/ cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/WriterOutputStream.java
* /opt/ cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/ cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/Terminal.java
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jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1258017122_1643022580.97/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch, orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mcg, MC
clear_screen, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cufl, nd
cursor_tollx, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dll1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
enac, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, sshm, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm, ZU
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exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, KB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
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key_dc, kdch1, kD
key_dl, kdll, kL
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key_enter, kent, @8
key_eol, kel, kE
key_eos, ked, kS
key_exit, kext, @9
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key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
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key_print, kprt, %9
key_redo, krdo, %0
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key_refresh, kref, &2
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key_resume, kres, &5
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key_sbeg, kBEG, &9
key_scancel, kCAN, &0
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key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
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key_sfind, kFND, *0
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key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
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key_smove, kMOV, %b
key_snxt, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_srt, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_ssuspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, 11
lab_f10, lf10, la
lab_f2, lf2, 12
lab_f3, lf3, 13
lab_f4, lf4, 14
lab_f5, lf5, 15
lab_f6, lf6, 16
lab_f7, lf7, 17
lab_f8, lf8, 18
lab_f9, lf9, 19
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuul1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro, mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
ptrr_non, mc5p, pO
ptrr_off, mc4, pf
ptrr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgpb, Zl
set_clock, scdk, SC
set_color_pair, scjp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin, smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
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user7, u7, u7
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xoff_character, xoffc, XF
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alt_scancode_esc, scesa, S8
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bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
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define_bit_image_region, defbi, Yx
device_type, devt, dv
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define_bit_image_region, endbi, Yy
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req_mouse_pos, reqmp, RQ
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set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
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set_a_background, setab, AB
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set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, eloihlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
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LICENCES

The daemon itself is GPL3 licensed, for more information see the GPL file.

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Lennart Poettering, 2009

1.11 geocode-glib 3.26.2-2

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.26 itstool 2.0.6-2.el8
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  jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/aopalliance/intercept/MethodInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/aopalliance/intercept/Invocation.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectAdvisorsBuilder.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/aopalliance/aop/Advice.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/aopalliance/intercept/Joinpoint.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/ComposablePointcut.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AopProxyUtils.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/support/NameMatchMethodPointcut.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/aop/target/ThreadLocalTargetSource.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/Advised.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/TargetClassAware.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/support/MethodMatchers.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/ProxyMethodInvocation.java
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  jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/support/ClassFilters.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
  jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
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  jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
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  jar/org/springframework/aop/config/AopConfigUtils.java
jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/scope/ScopedObject.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3.jar/org/springframework/aop/framework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
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1.34 openssl 1.1.1k-6.el8_5

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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A contract for inspecting and potentially modifying request data values such
as URL query parameters or form field values before they are rendered by a
view or before a redirect.

Implementations may use this contract for example as part of a solution
to provide data integrity, confidentiality, protection against cross-site
request forgery (CSRF), and others or for other tasks such as automatically
adding a hidden field to all forms and URLs.

View technologies that support this contract can obtain an instance to
delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  

@since 3.1

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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * The XSLT Source object is supplied as a parameter in the model and then
 * { @link #locateSource detected } during response rendering. Users can either specify
 * a specific entry in the model via the { @link #setSourceKey sourceKey } property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See { @link #getSourceTypes() here}
 * for more details.
 *
 * All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure { @link #setOutputProperties output properties}
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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  jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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  jar/org/springframework/web/servlet/HandlerExceptionResolver.java
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1.40 talloc 2.3.2-1.el8

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  Samba trivial allocation library - new interface

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1.42 jbossrmiapi 1.0.4.Final-redhat-2

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1.44 selinux 2.7-2build2

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1.45 soundtouch 2.0.0-3.el8

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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That is the intention.

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package, and uppercase words in at least 4 of the previous 12
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top 1000 male, female, and Last names from the 1990 Census report; a
list of names sent to me by Alan Beale; and a few names that I added
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The name files from the Census report is a government document which I
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The file special-jargon.50 uses common.lst and word.lst from the
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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link #locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link #getSourceTypes() here]
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link #setOutputProperties output properties]
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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2000-01-14

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1.69 go 1.15.3

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/WorkManagerTaskScheduler.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/CronTriggerBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleTriggerBean.java

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Found in path(s):
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/velocity/SpringResourceLoader.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/javamail/JavaMailSender.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/MailAuthenticationException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerAccessor.java

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jar/org/springframework/mail/MailException.java
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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
No license file was found, but licenses were detected in source scan.

# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
# TEXT TYPES

text/x-speech
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
image/x-png
# Image Exchange Format (RFC 1314)
image/ief
# JPEG
image/jpeg jpeg jpg jpe
# RGB
image/rgb rgb
# Group III Fax (RFC 1494)
image/g3fax g3f
# X Windowdump format
image/x-xwindowdump xwd
# Macintosh PICT format
image/x-pict pict
# PPM (UNIX PPM package)
image/x-portable-pixmap ppm
# PGM (UNIX PPM package)
image/x-portable-graymap pgm
# PBM (UNIX PPM package)
image/x-portable-bitmap bm
# PNM (UNIX PPM package)
image/x-portable-anymap pnm
# Microsoft Windows bitmap
image/x-ms-bmp bmp
# CMU raster
image/x-cmu-raster ras
# Kodak Photo-CD
image/x-photo-cd pcd
# Computer Graphics Metafile
image/cgm cgm
# CALS Type 1 or 2
image/x-cals mil cal
# Fractal Image Format (Iterated Systems)
image/fif fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsf dsf
# CMX vector image (Corel)
image/x-cmx cmx
# Wavelet-compressed (Summus)
image/wavelet wi
# AutoCad Drawing (SoftSource)
image/vnd.dwg dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf dxf
# Simple Vector Format (SoftSource)
image/vnd.svf svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic"""" audio - 8-bit u-law PCM"
audio/basic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

# VIDEO TYPES

# MPEG video
video/mpeg
video/mpeg-2
# Macintosh Quicktime
video/quicktime
# Microsoft video
video/x-msvideo
# SGI Movie format
video/x-sgi-movie
# VDOlive streaming video (VDOnet)
video/vnd.vdo
# Vivo streaming video (Vivo software)
video/vnd.vivo

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk
application/zip
# Macintosh Binhexed archive
application/mac-binhex40hqx
# Macintosh Stuffit Archive
application/x-stuffitsit sea
# Fractal Image Format
application/fractalsff
# "Binary UUencoded"
application/octet-stream uu
# PC executable
application/octet-stream exe
# "WAIS "sources"
application/x-wais-sourcesrc wsric
# NCSA HDF data format
application/hdfhdf

# DOWNLOADABLE PROGRAM/SCRIPTS

text/javascript js mocha
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-cshcsh
# Perl program
application/x-perlpl
# Tcl (Tool Control Language) program
application/x-tcltcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplashespl
# mBED multimedia data (mBED)
application/mbedletmbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT
# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs

# OLE Object (Microsoft/NCompass)
application/x-oleobjectodds

# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp

# Visual Basic objects (Amara)
application/x-webbasicwba

# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm

# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com

# Pointcast news data (Pointcast)
application/x-pcnpncn

# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxIs

# PowerPoint (Microsoft)
application/vnd.ms-powerpointtppt

# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp

# SourceView document (Dataware Electronics)
application/vnd.svdsvd

# Net Install - software install (20/20 Software)
application/x-net-installins

# Carbon Copy - remote control/access (Microcom)
application/ccvccv

# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlvrml vrmL

# WIRL - VRML data (VREAM)
x-world/x-vreamvrw

# Play3D 3d scene data (Play3D)
application/x-p3dp3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr

# WebActive 3d data (Plastic Thought)
x-world/x-wvwrwvr

# QuickDraw3D scene data (Apple)
x-world/x-3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-mesh
# Vis5D 5-dimensional data
application/vis5d
# IGES models -- CAD/CAM (CGM) data
application/iges
# Autocad WHIP vector drawings
drawing/x-dwf

Found in path(s):
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/javamail/mime.types
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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/SimpleMailMessage.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
1.77 libxcrypt 4.1.1-6.el8

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1.81 python-iniparse 0.4 31.el8
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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1.93 python-dateutil 2.6.1-1.ph1

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1.94 glew 2.2.0

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Mesa 3-D graphics library
Version: 7.0

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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That's all there is to it!

1.102 pythonurllib 1.24.2-5.el8
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConne

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConne

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConne

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6ygg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
1.103 prettyfaces-core 3.3.3

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* /opt/cola/permits/1258017193_1643022640.66/0/prettyfaces-core-3-3-2-sources-jar/com/ocpsoft/pretty/faces/servlet/PrettyFacesWrappedResponse.java
* /opt/cola/permits/1258017193_1643022640.66/0/prettyfaces-core-3-3-2-sources-jar/com/ocpsoft/pretty/faces/config/rewrite/Case.java
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* /opt/cola/permits/1258017193_1643022640.66/0/prettyfaces-core-3-3-2-sources-jar/com/ocpsoft/pretty/faces/bean/ParameterValidator.java
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1.107 device-mapper-multipath 0.8.4-17.el8
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/*
 * Soft: multipath device mapper target autoconfig
 *
 * Version: $Id: main.h,v 0.0.1 2003/09/18 15:13:38 cvaroqui Exp $
 *
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concluded that weaker conditions might promote sharing better.

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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* public domain.
1.119 python-enchant 2.0.0-3.el8

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* /opt/cola/permits/1258508010_1643078805.99/0/junixsocket-native-common-2-3-2-sources-jar/org/newsclub/lib/junixsocket/common/NarMetadata.java

1.126 stax 4.2.1
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1.129 tpm2-tss-tcti 2.3.2-4.el8

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1.130 gnome-font-viewer 3.28.0-1.el8

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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/ContainsFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/RoundFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/SubstringBeforeFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/CommentNodeStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/PrecedingSiblingAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/FunctionContext.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultLessThanExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/SimpleFunctionContext.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/PositionFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableFollowingAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/function/NoNodeTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultGreaterThanOrEqualExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/function/UnresolvableException.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultNameStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/Context.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/XPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/ContextSupport.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/javabean/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/NamedAccessNavigator.java

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  jar/org/jaxen/jdom/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/util/FollowingAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/dom4j/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/util/DescendantAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/dom/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/util/PrecedingAxisIterator.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultPathExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DomPathExpr.java
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#
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
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1.139 pkgconf 1.4.2 1.el8

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*/
package javax.servlet.jsp;
/**
 * A generic exception known to the JSP engine; uncaught
 * JspExceptions will result in an invocation of the errorpage
 * machinery.
 */

1.145 kpatch 0.9.2-5.el8

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1.150 gnome-control-center 3.28.2-29.el8_5

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1.154 util-linux 2.32.1

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1.155 idna 2.5-2.ph2

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* /opt/cola/permits/1162254759_162565735.46/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-xG0yOH9V/python-idna.spec

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Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)


This is the latest version of the protocol and is sometimes referred to as
This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_. This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

```python
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
```

Installation
------------
To install this library, you can use pip:

```bash
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```bash
```

Packages
--------
The latest tagged release version is published in the PyPI repository:
$ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```python
# Python 3
>>> import idna
>>> idna.encode('.')
'b\xe7\xe1--\xe7\xe1w\xe7\xc7\xc7.e\xe7\xe7--\xe7\xe7k\xe7\xe7h\xe7\xe7h'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```python
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++  

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now
considered by the specification to be a local user-interface issue distinct
from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_,
it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL
LETTER K* is not allowed (nor are capital letters in general). UTS 46 will
convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...
    idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
    b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
    königsgäßchen

Transitional processing provides conversions to help transition from the older
2003 standard to the current standard. For example, in the original IDNA
specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two
*LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this
conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare
cases where conversion from legacy labels to current labels must be performed
(i.e. IDNA implementations that pre-date 2008). For typical applications
that just need to convert labels, transitional processing is unlikely to be
beneficial and could produce unexpected incompatible results.

`encodings.idna` Compatibility

+++++++++++++++
new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the ```idna.IDNAError``` base class.

More specific exceptions that may be generated as ```idna.IDNABidiError``` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ```idna.InvalidCodepoint``` when a specific codepoint is an illegal character in an IDN label (i.e. `INVALID`); and ```idna.InvalidCodepointContext``` when the codepoint is illegal based on its positional context (i.e. it is `CONTEXTO` or `CONTEXTJ` but the contextual requirements are not satisfied.)

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_. The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1162254759_1625655735.46/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-xG0yOH9V/idna-2.5.tar.gz-cosi-expand-archive-0y03VA5z/idna-2.5/idna.egg-info/PKG-INFO
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

version = "2.5"

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
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            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
        ]
    }
```

No license file was found, but licenses were detected in source scan.
setup(**arguments)

if __name__ == '__main__':
    main()

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-------

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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1.160 shiro-crypto-cipher 1.8.0

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Version 3, 29 June 2007

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1.170 keyutils 1.5.9-9.2ubuntu2.1

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.176 stax-ex 1.8

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* /opt/cola/permits/1192071327_1637274324.28/0/jbosgi-resolver-felix-3-0-1-final-redhat-1-sources.jar/org/apache/felix/resolver/ResolverImpl.java
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  jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-
  jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-
  jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-
  jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/linux/LinuxNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/linux/LinuxNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/linux/LinuxNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/linux/LinuxNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/linux/LinuxNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/completer/NullCompleter.java
*/
jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/CursorSupport.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/MouseEvent.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/UserInterruptException.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/package-info.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/readers/Macro.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/Library.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/DiffHelper.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/AttributedString.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/OSUtils.java
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blue
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aqua
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blue3a
blue1
darkgreen
deeppinkblue4
deeppinkblue4a
deeppinkblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deeppinkblue3
deeppinkblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deeppinkblue2
deeppinkblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
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cyan2
cyan1
darkred
deeppink4
purple4
purple4a
purple3
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orange4
grey37
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darkseagreen2a
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paleturquoise1
red3a
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magenta2
darkorange3a
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/console/CommandMethods.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/console/ConfigurationPath.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/impl/completer/StringsCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/Editor.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/EOFError.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/reader/SyntaxError.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/utils/Status.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/utils/Status.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/utils/Status.java
*
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Java TelnetD library (embeddable telnet daemon)
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Found in path(s):
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/telnet/TelnetIO.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml

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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/style/StyleResolver.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/style/StyledWriter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/style/StyleBundleInvocationHandler.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/builtins/ssh/ShellCommand.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/builtins/ssh/ShellFactoryImpl.java
jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/NonStyleSource.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/NopStyleSource.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/MemoryStyleSource.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/NonBlockingInputStream.java

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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/NonBlockingInputStream.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpix_changes_res, lpix, YG
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memory_below, db, db
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move_standout_mode, msgr, ms
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no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
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non_rev_rmcup, nrrmc, NR
over_strike, os, os
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row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
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tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
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label_width, lw, lw
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max_colors, colors, Co
max_pairs, pairs, pa
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num_labels, nlab, Nl
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width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
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enter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
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enter_leftward_mode, slm, ZI
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enter_normal_quality, srmq, ZL
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enter_standout_mode, smso, so
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enter_superscript_mode, ssupm, ZO
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enter_upward_mode, sum, ZP
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flash_screen, flash, vb
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goto_window, wingo, WG
hangup, hup, HU
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init_2string, is2, is
init_3string, is3, i3
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init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
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key_a3, ka3, K3
key_b2, kb2, K2
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key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
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key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
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key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd
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key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos, ked, kS
key_exit, kext, @9
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key_f9, kf9, k9
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key_il, kil1, kA
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key_move, kmov, %4
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key_npage, knp, kN
key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
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key_resume, kres, &5
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key_save, ksav, &6
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key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
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key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage, kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
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key_sright, kRIT, %i
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key_sundo, kund, &8
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keypad_xmit, smkx, ks
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lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, eloilm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
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set_pglen_inch, slength, sL

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* @param javaBeanExecutable The executable of interest.
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* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. The default provider will
* return the actual parameter names, if the -parameters compiler option
* has been enabled, and [@code arg0], [@code arg1] etc. otherwise.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* {@code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
* *
* @author Gunnar Morling
*/

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/HibernateValidatorPermission.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/Mod10CheckValidator.java
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ComposingConstraintTree.java
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1810
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.210 perl-pod-simple 3.35-395.el8

1.210.1 Available under license:

No license file was found, but licenses were detected in source scan.

Removed "All rights reserved" from all files.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxw8E/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/ChangeLog

No license file was found, but licenses were detected in source scan.

sub dump { '[', _esc( @{$_[0]} ) , ']

# JUNK:

sub _esc {
  return '' unless $_;
  my @out;
  foreach my $in (@$_) {
    push @out, '"' . $in . '"';
    $out[-1] =~ s/([^-\s:,."\'>\"])/sprintf( (ord($1) < 256) ? \x%02X : \x{%X}, ord($1))/eg;
  }
  return join ', ', @out;
}

__END__

=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser
=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser (or a subclass)...

while(my $token = $parser->get_token) {
    if($token->is_start) {
        ...
    } elsif($token->is_text) {
        ...
    } elsif($token->is_end) {
        ...
    }
}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over
=item $token->type
This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start
This is a shortcut for $token->type() eq "start"

=item $token->is_text
This is a shortcut for \$token->type() eq "text" >>

=item $token->is_end

This is a shortcut for \$token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

    while(my $token = $parser->get_token) {
        $DEBUG and print STDERR "Token: ", $token->dump, "\n";
        ...
    }

=back

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
=item * David E. Wheeler <dwheeler@cpan.org>
=back
=cut

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No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: ",
join(' ', sort keys %$name2path), "\n";

print "LWPUA docs = ",
Pod::Simple::Search->new->find('LWP::UserAgent') || "?",
"\n";

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches for Pod files. An object of this class has several attributes (mostly options for controlling search options), and some methods
for searching based on those attributes.

The way to use this class is to make a new object of this class, set any options, and then call one of the search options (probably C<survey> or C<find>). The sections below discuss the syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called C<new>. It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally, reading) the contents of an object. With two exceptions (discussed at the end of this section), these attributes are just for controlling the way searches are carried out.

Note that each of these return C<$self> when you call them as C<< $self-><whatever(value)> >>. That's so that you can chain together set-attribute calls like this:

my $name2path = Pod::Simple::Search->new
  -> inc(0) -> verbose(1) -> callback(&blab)
  -> survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);

=over

=item $search->inc( I<true-or-false> );

This attribute, if set to a true value, means that searches should implicitly add perl's I<@INC> paths. This automatically considers paths specified in the C<PERL5LIB> environment as this is prepended to I<@INC> by the Perl interpreter itself.
This attribute's default value is \texttt{TRUE}. If you want to search only specific directories, set $\texttt{Self->inc(0)}$ before calling $\texttt{Sinc->survey}$ or $\texttt{Sinc->find}$.

\item $\texttt{search->verbose(I<nonnegative-number>)}$

This attribute, if set to a nonzero positive value, will make searches output (via \texttt{warn}) notes about what they're doing as they do it. This option may be useful for debugging a pod-related module. This attribute's default value is zero, meaning that no \texttt{warn} messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

\item $\texttt{search->limit_glob(I<some-glob-string>)}$

This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full) names begin with "L.W"; or you might search for "Find*" to search for all modules with "Find" somewhere in their full name. (You can also use "?" in a glob expression; so "DB?" will match "DBI" and "DBD".)

\item $\texttt{search->callback(I<\&some_routine>)}$

This attribute means that every time this search sees a matching Pod file, it should call this callback routine. The routine is called with two parameters: the current file's filespec, and its pod name. (For example: C<"/etc/perljunk/File/Crunk.pm", "File::Crunk") would be in C<@_>,.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.

\item $\texttt{search->laborious(I<true-or-false>)}$

Unless you set this attribute to a true value, \texttt{Pod::Search} will apply Perl-specific heuristics to find the correct module PODs quickly. This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for
seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do not match the current Perl interpreter's version ID, suppressing File/site_perl as a module hierarchy name, etc.

=item $search->recurse( I<true-or-false> );

Unless you set this attribute to a false value, Pod::Search will recurse into subdirectories of the search directories.

=item $search->shadows( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm> later on in that search, because that file is merely a "shadow". But if you turn on C<< $self->shadows(1) >>, then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

=item $search->limit_re( I<some-regexp> );

Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient C<limit_glob> attribute is used instead.

=item $search->dir_prefix( I<some-string-value> );

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressible as "File/Find"). For example, the search option C<< $search->limit_glob("File::Find::R*") >> is the same as the combination of the search options C<< $search->limit_re("^File::Find::R") -&gt; dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re and usually dir_prefix.)
If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a \texttt{reach} method and a \texttt{done} method. This is meant for reporting progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the \texttt{progress} option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's \texttt{reach} and \texttt{done} methods are called like this:

\begin{verbatim}
# Every time a file is being scanned for pod:
$progress->reach($count, "Scanning $file");  ++$count;

# And then at the end of the search:
$progress->done("Noted $count Pod files total");
\end{verbatim}

Internally, we often set this to an object of class Pod::Simple::Progress. That class is probably undocumented, but you may wish to look at its source.

\begin{verbatim}
=name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the result of \texttt{survey} method, as discussed in the next section.

=path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the result of \texttt{survey} method, as discussed in the next section.
\end{verbatim}

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

=head2 \texttt{\$search->survey( @directories )}}

The method \texttt{survey} searches for POD documents in a given set of files and/or directories. This runs the search according to the various
options set by the accessors above. (For example, if the C<$inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

The return value of C<survey> is two hashes:

=over

=item C$name2path>

A hash that maps from each pod-name to the filespec (like "Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C$path2name>

A hash that maps from each Pod filespec to its pod-name (like "/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

=back

Besides saving these hashes as the hashref attributes C$name2path> and C$path2name>, calling this function also returns these hashrefs. In list context, the return value of C<< $search->survey >> is the list C<($name2path, %path2name)>.

In scalar context, the return value is C<%name2path>.

Or you can just call this in void context.

Regardless of calling context, calling C<survey> saves its results in its C$name2path> and C$path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>, whereas F<$HOME/perl5lib/Myclass/Subclass.pm> would be I<Myclass::Subclass>. The name information can be used for POD translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more than one POD file with the same POD name is found, e.g. F<CPAN.pm> in different directories). This usually indicates duplicate occurrences of modules in the I<@INC> search path, which is occasionally inadvertent (but is often simply a case of a user's path dir having a more recent version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are searched recursively, or files. (Usually you wouldn't specify files, but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the C<inc> option on, as it is by default.

The POD names of files are the plain basenames with any Perl-like extension (.pm, .pl, .pod) stripped, and path separators replaced by C<::>'s.

Calling Pod::Simple::Search->search(...) is short for Pod::Simple::Search->new->search(...). That is, a throwaway object with default attribute values is used.

=head2 C<< $search->simplify_name( $str ) >>

The method B<simplify_name> is equivalent to B<basename>, but also strips Perl-like extensions (.pm, .pl, .pod) and extensions like F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 C<< $search->find( $pod ) >>

=head2 C<< $search->find( $pod, @search_dirs ) >>

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.

It searches according to the various options set by the accessors above. (For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.

Package names (eg 'A::B') are automatically converted to directory names in the selected directory. Additionally, '.pm', '.pl' and '.pod' are automatically appended to the search as required.

(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm", "somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this search; notably, C<inc>, if true, adds @INC I<and also $Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new
->find("perlvar") >> so that just the @INC (well, and scriptdir)
directories are searched. (This happens because the C<inc>
attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object
with default attribute values is used.

=head2 C<< $self->contains_pod( $file ) >>

Returns true if the supplied filename (not POD module) contains some Pod
documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed
from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from
Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:
=head1 NAME
Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \\
"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \\
thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses
Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from
L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its
documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>
ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

SUPPORT

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=item * David E. Wheeler <d wheeler@cpan.org>

=over
=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=item $token->text

This returns the text that this token holds. For example, parsing CZ<><foo> will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<< $token->text >>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need to do this.

=item $token->text_r()

This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:
for ( $token->text_r  ) {  # Aliases it with $_ !

    s/ The / the /g; # just for example

    if( 'A' eq chr(65) ) {  # (if in an ASCII world)
        tr/\xA0//;
        tr/\xAD//d;
    }

    ...or however you want to alter the value...
    (Note that starting with Perl v5.8, you can use, e.g.,

        my $nbsp = chr utf8::unicode_to_native(0xA0);
        s/$nbsp/ /g;

        to handle the above regardless if it's an ASCII world or not)
    }

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=back

=cut

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NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve
your problem. Have you read the appropriate man pages? Here's a brief index:

  Basics  perldata, perlvar, perlsyn, perlo p, perlsub
  Execution perlrun, perld ebug
  Functions perlfunc
  Objects perlref, perlmod, perlob j, perl tie
  Data Structures perlref, perllo l, perl dsc
  Modules perlmod, perlmodlib, perlsub
  Regexes perlre, perlfunc, perlo p, perlloc ale
  Moving to perl5 perltrap, perl
  Linking w/C perl xstut, perl x s, percall, perl guts, perl emb ed
A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perlddebug(1) man page, on an "empty" program, like this:

    perl -de 42

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?

Have you tried use warnings or used -w? They enable warnings to detect dubious practices.

Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

    open(FH, "> /etc/cantwrite")
    or die "Couldn't write to /etc/cantwrite: $!");

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perlddebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

    use Benchmark;
    @junk = `cat /etc/motd`;
    $count = 10_000;
    timethese($count, {
      'map' => sub { my @a = @junk;
                      map { s/a/b/ } @a;
                      return @a
                   },
      'for'  => sub { my @a = @junk;
                       local $_;
                       for (@a) { s/a/b/ }; return @a
                   }
    });

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

Benchmark: timing 10000 iterations of for, map...
    for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

perl -MO=Xref[,OPTIONS] scriptname.plx

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent() does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
map! ^O \[^M\]\[^O\]'T
```

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

CodeMagicCD
http://www.codemagiccd.com/

Komodo
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl1.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
(http://www.petes-place.com/codemagic.html).

visiPerl+
For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS
http://members.nbci.com/uemacs/

XEmacs
http://www.xemacs.org/Download/index.html

or a vi clone such as

Elvis

Vile
http://vile.cx/

Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html


nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

Codewright
http://www.starbase.com/

MultiEdit

SlickEdit
http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)

Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)

Tcsh

Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn’t matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition
to the shells) a comprehensive set of standard UNIX toolkit utilities.
If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.
On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).
BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).
Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).
Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.
In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.
Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/

How can I use curses with Perl?

What is undump?
See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.
A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way
we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have
critical sections can be written in C (for instance, the PDL module from CPAN).
In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or
compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution
time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as
you'd hope.
If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit
by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs
(and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.
Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive
applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O
mechanisms" section.
The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to
disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.
How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use
more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be
done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared
amongst all hashes using them, so require no reallocation.
In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a
thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a
considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure.
If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use
less memory than equivalent Perl modules.
Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc.
Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in
the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.
Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
  my @a = ( 1 .. 10 );
  return \@a;
}
for $i ( 1 .. 10 ) {
  push @many, makeone();
}

print $many[4][5], "\n";
print "@many\n";
```

How can I free an array or hash so my program shrinks?
You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's
why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux)
allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The
Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.
We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on
Solaris 2.6 it won't. In general, try it yourself and see.
However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free
up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you
can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In
general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but
even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has
additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled
and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to
help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server
(available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.
With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl
interpreter which pre-compiles your script and then executes it within the same address space without forking. The
Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about
anything a module written in C can. For more on mod_perl, see http://perl.apache.org/
With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of
your Perl programs becomes a permanent CGI daemon process.
Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs,
so investigate them with care.

A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or
http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance
of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl
mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation
copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of \"security\".
First of all, however, you can't take away read permission, because the source code has to be readable in order to be
compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--
only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755
level.

Some people regard this as a security problem. If your program does insecure things and relies on people not
knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure
things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs
instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to
decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be
able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to
disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can
definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive
license will give you legal security. License your software and pepper it with threatening statements like \"This is
unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah
blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will
stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things.
It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a
programmer but not really for people looking for turn-key solutions.
Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.

If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11K in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```
  extproc perl -S -your_switches
```
as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux. Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?

Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -pe 's//^.*?\$/\}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X, @ARGV)' *

# find first unused uid
```
perl -le 'i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e
s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}’
OK, the last one was actually an Obfuscated Perl Contest entry. :-)

Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change single-
quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %%.
For example:
# Unix
perl -e 'print "Hello world\n"'
# DOS, etc.
perl -e "print \"Hello world\n\""
# Mac
print "Hello world\n"
  (then Run "Myscript" or Shift-Command-R)
# VMS
perl -e "print ""Hello world\n""

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd
probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells
in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control
characters.
Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to
write.
There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)
[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?
For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff
in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why
doesn't it run from the browser right when it runs fine on the command line", see these sources:
WWW Security FAQ
http://www.w3.org/Security/Faq/
Web FAQ
http://www.boutell.com/faq/
CGI FAQ
http://www.webthing.com/tutorials/cgifaq.html
HTTP Spec
http://www.w3.org/pub/WWW/Protocols/HTTP/
HTML Spec
http://www.w3.org/TR/REC-html40/
http://www.w3.org/pub/WWW/MarkUp/
CGI Spec
http://www.w3.org/CGI/
CGI Security FAQ

http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?
A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FAQMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]
If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perl guts. If you want to call Perl from C, then read perлемbed, percall, and perlguts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.
I've read perлемbed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test`. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:
  perl program 2>diag.out
  splain [-v] [-p] diag.out
or change your program to explain the messages for you:
  use diagnostics;
or
  use diagnostics -verbose;

What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

AUTHOR AND COPYRIGHT
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Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaqo.txt
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L:&lt; Pod::Simple::PullParser &gt; )
DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this start-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object.
You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<< <Foo/"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token.
This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call
C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.
Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserStartToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter
subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-&gt;new(); >>

This returns a new parser object, where I<SomeClass> is a subclass of Pod::Simple.

=item C<< $parser-&gt;output_fh( *OUT ); >>

This sets the filehandle that C<$parser>'s output will be written to.
You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

    my $outfile = "output.txt";
    open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
    $parser-&gt;output_fh(*TXTOUT);

...before you call one of the C<< $parser-&gt;parse_I<whatever> >> methods.

=item C<< $parser-&gt;output_string( \$somestring ); >>

This sets the string that C<$parser>'s output will be sent to, instead of any filehandle.

=item C<< $parser-&gt;parse_file( I<$some_filename> ); >>

=item C<< $parser-&gt;parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that C<$parser> object, according to however C<$parser>'s class works, and according to whatever parser options you have set up for this C<$parser> object.

=item C<< $parser-&gt;parse_string_document( I<$all_content> ); >>

This works just like C<parse_file> except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser-&gt;parse_lines( I<...@lines...>, undef ); >>
This processes the lines in C<$@lines> (where each list item must be a defined value, and must contain exactly one line of content -- so no items like C<"foo\nbar"> are allowed). The final C<$undef> is used to indicate the end of document being parsed.

The other C<$parser_I<whatever>> methods are meant to be called only once per C<$parser> object; but C<$parse_lines> can be called as many times per C<$parser> object as you want, as long as the last call (and only the last call) ends with an C<$undef> value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this document. Returns false in cases where the document contains content, but does not make use of any Pod markup.

=item C<< I<SomeClass>-&gt;filter( I<$filename> ); >>

=item C<< I<SomeClass>-&gt;filter( I<&INPUT_FH> ); >>

=item C<< I<SomeClass>-&gt;filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:

perl -MPod::Simple::Text -e "Pod::Simple::Text-&gt;filter('thingy.pod')"

=back

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with C<< $value = $parser-&gt;I<attribute> >> and set the attribute's value with C<< $parser-&gt;I<attribute>(I&lt;newvalue>) >>. For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

=over
The Pod parser normally expects to read octets and to convert those octets to characters based on the \$encoding declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any \$encoding command and to skip all the code paths involving decoding octets.

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting \$complain_stderr also sets \$no_errata_section.

This returns the filename that this parser object was set to read from.

This returns true if \$parser has read from a source, and has seen Pod content in it.
This returns true if C<$parser> has read from a source, and come to the end of that source.

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

$parser->strip_verbatim_indent( ' ' );

For tab indents, you'd use a tab character:

$parser->strip_verbatim_indent( "\t" );

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
});

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don't want I<any> lines indented. You can do something like this:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/^\s+// for @ { $lines },
      return undef;
});
TERTIARY METHODS

- **abandon_output_fh()**
  
  Cancel output to the file handle. Any POD read by the parser is not affected.

- **abandon_output_string()**
  
  Cancel output to the output string. Any POD read by the parser is not affected.

- **accept_code( @codes )**
  
  Alias for `accept_codes`.

- **accept_codes( @codes )**
  
  Allows the parser to accept a list of formatting codes. This can be used to implement user-defined codes.

- **accept_directive_as_data( @directives )**
  
  Allows the parser to accept a list of directives for data paragraphs. A directive is the label of a command paragraph. A data paragraph is one delimited by `begin=/for=/end` directives. This can be used to implement user-defined directives.

- **accept_directive_as_processed( @directives )**
  
  Allows the parser to accept a list of directives for processed paragraphs. A directive is the label of a command paragraph. A processed paragraph is also known as an ordinary paragraph. This can be used to implement user-defined directives.

- **accept_directive_as_verbatim( @directives )**
  
  Allows the parser to accept a list of directives for verbatim paragraphs. A directive is the label of a command paragraph. This can be used to implement user-defined directives.
Alias for L<< accept_targets >>.

=item C<< $parser->accept_target_as_text( @targets ) >>X<accept_target_as_text>

Alias for L<< accept_targets_as_text >>.

=item C<< $parser->accept_targets( @targets ) >>X<accept_targets>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text( @targets ) >>X<accept_targets_as_text>

Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< $parser->any_errata_seen() >>X<any_errata_seen>

Used to check if any errata was seen.

I<Example:>

die "too many errors\n" if $parser->any_errata_seen();

=item C<< $parser->errata_seen() >>X<errata_seen>

Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number and the value is an array reference of the errors for that line.

I<Example:>

if ( $parser->any_errata_seen() ) {
    $logger->log( $parser->errata_seen() );
}

=item C<< $parser->detected_encoding() >>X<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >>X<parse_from_file>

Parses from C<<$source> file to C<<$to> file. Similar to L<< Pod::Parser/parse_from_file >>.
Log an error that can't be ignored.

Alias for $parser->unaccept_codes.

Removes \texttt{@codes} as valid codes for the parse.

Alias for $parser->unaccept_directives.

Removes \texttt{@directives} as valid directives for the parse.

Alias for $parser->unaccept_targets.

Removes \texttt{@targets} as valid targets for the parse.

Returns a string describing the version.

Log an error unless $parser->no_whining( TRUE );.

ENCODING

The Pod::Simple parser expects to read \texttt{octets}. The parser will decode the octets into Perl's internal character string representation using the value of the \texttt{encoding} declaration in the POD source.

If the POD source does not include an \texttt{encoding} declaration, the parser will attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining the first non-ASCII bytes and applying the heuristic described in
L<perlpodspec>. (If the POD source contains only ASCII bytes, the encoding is assumed to be ASCII.)

If you set the C<parse_characters> option to a true value the parser will expect characters rather than octets; will ignore any C<encoding>; and will make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.
Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>
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ExtUtils::MakeMaker: '0'
dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Simple

no_index:
directory:
  - t
  - inc

recommends:
  Encode: '2.78'
requires:
  Carp: '0'
  Config: '0'
  Cwd: '0'
  File::Basename: '0'
  File::Find: '0'
  File::Spec: '0'
  Pod::Escapes: '1.04'
  Symbol: '0'
  Test: '1.25'
  Test::More: '0'
  Text::Wrap: '98.112902'
  integer: '0'
  overload: '0'
  strict: '0'

resources:
  bugtracker: https://github.com/perl-pod/pod-simple/issues
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/perl-pod/pod-simple.git
  version: '3.35'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZzwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/META.yml

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsText -e \n"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

=head1 SUPPORT

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=cut

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=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its
L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the
site for Perl module links.

=head1 AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/XHTML.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML
documents
This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses
Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

    use Pod::Simple::HTMLBatch;
    my $batchconv = Pod::Simple::HTMLBatch->new;
    $batchconv->some_option(some_value);
    $batchconv->some_other_option(some_other_value);
    $batchconv->batch_convert(\@search_dirs, $output_dir);

=head2 FROM THE COMMAND LINE

Note that this class also provides
(but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line
arguments, C<indirs> and C<outdir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
    (to convert the pod from Perl's @INC
     files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
    (to convert the pod under the current dir into HTML
     files under the directory ./seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
    (to convert all pod from happydocs into the current directory)
=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch-&gt;new;

This TODO

=item $batchconv-&gt;batch_convert( I&lt;indirs&gt;, I&lt;outdir&gt; );

this TODO

=item $batchconv-&gt;batch_convert( undef , ...);

=item $batchconv-&gt;batch_convert( q[@INC], ...);

These two values for I&lt;indirs&gt; specify that the normal Perl @INC

=item $batchconv-&gt;batch_convert( \@dirs , ...);

This specifies that the input directories are the items in
the arrayref C&lt;\@dirs&gt;.

=item $batchconv-&gt;batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current directory:

   $batchconv-&gt;batch_convert( "." , ...);

=item $batchconv-&gt;batch_convert( 'somedir:someother:also' , ...);

This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C&lt;[qw( somedir someother also)]&gt;. Note that a ";"-separator is normal
under Unix, but Under MSWin, you'll need C&lt;somedir;someother;also&gt;
instead, since the pathsep on MSWin is ";" instead of ";". (And
I&lt;that&gt; is because ";" often comes up in paths, like
C&lt;c:/perl/lib".)


(Exactly what separator character should be used, is gotten from C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert( ... , undef );

This specifies that you want the HTML output to go into the current directory.

(Note that a missing or undefined value means a different thing in the first slot than in the second. That's so that C<batch_convert()> with no arguments (or undef arguments) means "go from @INC, into the current directory.)

=item $batchconv->batch_convert( ... , 'somedir' );

This specifies that you want the HTML output to go into the directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method, like so:

Pod::Simple::HTMLBatch->batch_convert( ... );

That is just short for this:

Pod::Simple::HTMLBatch-> new-> batch_convert(...);

That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, C<< $self->contents_file() >> returns the current value of the contents_file attribute.
=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false> );

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start( I<HTML_string> );

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>

=item $batchconv->contents_page_end( I<HTML_string> );

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

<p class='contentsfooty'>Generated by Pod::Simple::HTMLBatch v3.01 under Perl v5.008
<br>At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>

=item $batchconv->add_css( $url );
TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( I<true-or-false> );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.
TODO: continue

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );

This sets what class is used for rendering the files.
The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION
TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname
and maybe override
$page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
$batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspe>

=head1 SUPPORT

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=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/HTMLBatch.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e "exit Pod::Simple::Checker->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of
L&lt;Pod::Simple::Text&gt; that formats only the "Pod Errors" section
(if Pod::Simple even generates one for the given document).

This is a subclass of L&lt;Pod::Simple&gt; and inherits all its methods.

=head1 SEE ALSO

L&lt;Pod::Simple&gt;, L&lt;Pod::Simple::Text&gt;, L&lt;Pod::Checker&gt;

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=head1 NAME
Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
    my $self = shift;
    Token:
    while(my $token = $self->get_token) {
        ...process each token...
    }
}

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.
A subclass of Pod::Simple::PullParser should define a \c{run} method that calls \c{do $token = $parser->get_token;} to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or \texttt{undef} if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call \c{set_source}:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( $document_source )

=item $parser->set_source( $document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...)

=item $parser->parse_string_document(...)

=back
For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven’t started pulling tokens from yet:

- $title_string = $parser->get_title
  This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

  For example, suppose you have a document that starts out:

  =head1 NAME

  Hoo::Boy::Wowza -- Stuff B<wow> yeah!

  $parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

  =head1 Name

  Hoo::Boy::W00t -- Stuff B<w00t> yeah!

  Then you'll need to pass the C<nocase> option in order to recognize "Name":

  $parser->get_title(nocase => 1);

  In cases where get_title can’t find the title, it will return empty-string ("").

- $title_string = $parser->get_short_title
  This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description". 
For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string (""").

=item $author_name   = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:
$parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of
the "=head1 VERSION

[BIG BLOCK]" block. Note that this does NOT
return the module's C<$VERSION>!! To recognize a
"=head1 Version

[BIG BLOCK]" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just
writing a program that does something simple with a Pod::PullParser
object (and not an object of a subclass), then there's no reason to
bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

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=back

=cut

JUNK:

sub _old_get_title {  # some witchery in here
    my $self = $_[0];
    my $title;
    my @to_unget;

    while(1) {
        push @to_unget, $self->get_token;
        unless(defined $to_unget[-1]) { # whoops, short doc!
            pop @to_unget;
            last;
        }
    }

    DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";

    (DEBUG and print STDERR "Too much in the buffer:\n"),
    last if @to_unget > 25; # sanity
my $pattern = '';
if( #$to_unget[-1]->type eq 'end'
#and $to_unget[-1]->tagname eq 'Para'
#and
($pattern = join('',
map {;
($_->type eq 'start') ? ("<" . $_->tagname .">")
: ($_->type eq 'end' ) ? ("</". $_->tagname .">")
: ($_->type eq 'text' ) ? ($_->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
: "BLORP"
} @to_unget
)) =~ m{<head1>NAME</head1><Para>(X|</?[BCIFLS]>)+</Para>$}s
){
# Whee, it fits the pattern
DEBUG and print STDERR "Seems to match =head1 NAME pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname eq 'Para';
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} elsif ($pattern =~ m{<head(\d)>(.+)</head\d>$}
and !( $1 eq '1' and $2 eq 'NAME' )
){
# Well, it fits a fallback pattern
DEBUG and print STDERR "Seems to match NAMEless pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} else {
DEBUG and $pattern and print STDERR "Leading pattern: $pattern\n";
}
}
# Put it all back:
$self->unget_token(@to_unget);
if(DEBUG) {
if(defined $title) { print STDERR " Returning title <$title>\n" }
else { print STDERR "Returning title <>\n" }

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return " unless defined $title;
return $title;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyIJzxBIE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParser.pm
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=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsXML -e "
exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen"
thingy.pod

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class. Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>
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No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e "exit Pod::Simple::Text->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

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=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a 
"=head1 ...
" line will give you 
a start-token with the tagname of "head1", token(s) for its 
content, and then an end-token with the tagname of "head1".

=item $token->tagname("<somestring>")

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag("<somestring>") or $token->is_tagname("<somestring>")

These are shortcuts for C<< $token->tag() eq "<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for 
yourself, but if you want to, call
C<<
Pod::Simple::PullParserEndToken->new("tagname")
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the
"section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for `C<< LZ<><Stuff/foo> >>`, and "bar" for `C<< LZ<><Stuff/bIZ<><ar>> >>`.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet @treelet_object. To wit:

```
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper($_[1]{'section'}) }
__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"
```

Output:
```
$VAR1 = bless( [
  '',
  {},
  'b',
  bless( [
    'I',
    {},
    'ar'
  ], 'Pod::Simple::LinkSection' ),
  'baz'
], 'Pod::Simple::LinkSection' );
```

But stringify it and you get just the text content:

```
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper(" . $_[1]{'section'}") }
__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"
```

Output:
```
$VAR1 = 'barbaz';
```

=head1 SEE ALSO

L<Pod::Simple>

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No license file was found, but licenses were detected in source scan.
Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e \n  "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \n  ptest.pod

$VAR1 = [ 'Document', \n  { 'start_line' => 1 }, \n  [ \n    'head1', \n    { 'start_line' => 1 }, \n    'PIE' \n  ], \n  [ \n    'Para', \n    { 'start_line' => 3 }, \n    'I like ', \n    [ \n      'B', \n      { }, \n      'pie' \n    ], \n    '!' \n  ];

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS
At the end of the parse, call \$parser->root to get the
tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of
the form: \$< \{
< elementname>, \%attributes, ...
< subnodes... > \}
.
See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref)
string scalar. So you can test ref($node) to see whether you have
an element node or just a text node.

The top node in the tree is \$< \{
< 'Document', \%attributes,
< ...subnodes... > \}

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser/XML::Parser/"Tree">

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pod-people-subscribe@perl.org to subscribe.

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to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

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=back

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/SimpleTree.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5); # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which you DO want debug output from...

$debug_level = 0;
=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace level) of Pod::Simple. This is of interest only to Pod::Simple developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or any Pod::Simple-based class). If you try loading Pod::Simple::Debug after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will throw a fatal error to the effect that
"It's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug (\$x, I<somenum>)> mode will make Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't be a constant sub anymore, and so Pod::Simple (et al) won't compile with constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5); # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () {5} } # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0); # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level } }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>

The article "Constants in Perl", in I<The Perl Journal> issue
=head1 SUPPORT

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=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \n  "exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \n  thingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e \
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \nthingy.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for
viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you
call C<parse_file> (or a similar method) on it:

=item $parser->head1_halfpoint_size( I<halfpoint_integer> );
=item $parser->head2_halfpoint_size( I<halfpoint_integer> );
=item $parser->head3_halfpoint_size( I<halfpoint_integer> );
=item $parser->head4_halfpoint_size( I<halfpoint_integer> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

=item $parser->normal_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

=item $parser->no_proofing_exemptions( I<true_or_false> );

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.
Here are some notable values:

1033  US English
2057  UK English
3081  Australia English
4105  Canada English
1034  Spain Spanish
2058  Mexico Spanish
1031  Germany German
1036  France French
3084  Canada French
1035  Finnish
1044  Norwegian (Bokmal)
2068  Norwegian (Nynorsk)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1009548100_1591379813.5/0/perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/perl-Pod-Simple.spec

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=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_;
    ...
}

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 2040
sub start_head1 {
  my($self, $attrs) = @_;
  ...
}
sub end_head1 {
  my($self) = @_;
  ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" ) if $parser->can('handle_text');
$parser->end_head1() if $parser->can('end_head1');

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.
SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

SUPPORT

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Found in path(s):
=head1 NAME
Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS
perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION
This class is for making an HTML rendering of a Pod document.
This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).
Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE
TODO
perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code
use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string('<my $html>);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!\n";
print $out $html;

=head2 More detailed example
use Pod::Simple::HTML;
Set the content type:

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, though this is not recommended)

$p->html_javascript('  
    <script type="text/javascript" src="http://abc.com/b.js"></script>
    <script type="text/javascript" src="http://abc.com/c.js"></script>
  ');

Include a single css source in the header:

$p->html_css('/style.css');

or insert multiple css sources:

$p->html_css('  
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">
  ');

Tell the parser where should the output go. In this case it will be placed in the $html variable:

my $html;
$p->output_string($html);

Parse and process a file with pod in it:

$p->parse_file('path/to/Module/Name.pm');

=head1 METHODS

TODO

all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC ".//W3C//DTD HTML 4.01
Set the content-type in the HTML head: (defaults to ISO-8859-1)

```perl
$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};
```

Set the value that will be embedded in the opening tags of F, C tags and verbatim text. F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to "")

```perl
$Pod::Simple::HTML::Computerese = ' class="some_class_name';
```

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

```perl
$p->html_header_before_title('<html><head><title>');
```

=head2 top_anchor

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML. You can change it by calling

```perl
$p->top_anchor('<a name="zz" >');
```

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc. Using the html_h_level method will change these levels setting the h level of =head1 tags:

```perl
$p->html_h_level(3);
```

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index
Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

$p->index(1);

=head2 html_header_after_title

Includes the closing tag of </title> and through the rest of the head till the opening of the body

$p->html_header_after_title('</title>...</head><body id="my_id">');

=head2 html_footer

The very end of the document:

$p->html_footer( qq\[
<!-- end doc -->

</body></html>
\] );

=head1 SUBCLASING

Can use any of the methods described above but for further customization one needs to override some of the methods:

package My::Pod;
use strict;
use warnings;
use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
    # My::Pod object and Pod::Simple::PullParserStartToken object
    my ($self, $link) = @_;  

    say $link->tagname;    # will be L for links
    say $link->attr('to'); #
    say $link->attr('type');  # will be 'pod' always
    say $link->attr('section');

    # Links local to our web site
    if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
        my $to = $link->attr('to');
        if ($to =~ /^Padre::/) {
            $to =~ s{::}{/}g;
    }
return "/docs/Padre/$to.html";

Meanwhile in script.pl:

use My::Pod;

my $p = My::Pod->new;

my $html; $p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

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Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

Installation

To install this module, type the following:

    perl Makefile.PL
    make
    make test
    make install

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=over

=item * google-cloud-go video-v1.4.0

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    // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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    // limitations under the License.

    // Code generated by protoc-gen-go_gapic. DO NOT EDIT.

    package compute_test

    import (
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
    }
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.

} resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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// Code generated by protoc-gen-go-gapic. DO NOT EDIT.

package compute

import {
"bytes"
"context"
"fmt"
"io/ioutil"
"net/http"
"net/url"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
}
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get         []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.

// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }

    return c, nil
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }, nil}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeaderValue(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestIamPermissionsResponse, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}
baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err != nil {
        return googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

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func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    func ExampleLicensesClient_Insert() {
        ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
        if err != nil {
            // TODO: Handle error.
        }
        defer c.Close()

        req := &computepb.InsertLicenseRequest{
            // TODO: Fill request struct fields.
            // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
        }
        op, err := c.Insert(ctx, req)
        if err != nil {
            // TODO: Handle error.
        }

        err = op.Wait(ctx)
        if err != nil {
            // TODO: Handle error.
        }
func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  
"bytes"  
"context"  
"fmt"  
"io/ioutil"  
"math"  
"net/http"  
"net/url"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method ofLicensesClient.
type LicensesCallOptions struct {
    Delete    []gax.CallOption
    Get       []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert    []gax.CallOption
    List      []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...
gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // operationClient is used to call the operation-specific management service.
  operationClient *GlobalOperationsClient

  // The x-goog-* metadata to be sent with each request.
// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

c := &licensesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append(kv, []string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), 
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
  c.httpClient = nil
  if err := c.operationClient.Close(); err != nil {
    return err
  }
  return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
  return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
  baseUrl, _ := url.Parse(c.endpoint)
  params := url.Values{
    "requestId": fmt.Sprintf("%v", req.GetRequestId())
  }
  baseUrl.RawQuery = params.Encode()

  headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.Operation{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
      if err != nil {
        return err
      }
      httpReq = httpReq.WithContext(ctx)
      httpReq.Header = headers
      httpRsp, err := c.httpClient.Do(httpReq)
      if err != nil {
        return err
      }
      resp := &computepb.Operation{
        e := gax.UnmarshalProto(ctx, httpRsp.Body, resp)
      }
    })
    e := gax.UnmarshalProto(ctx, httpRsp.Body, resp)
    return nil, e
  }
  }
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
        project: req.GetProject(),
    },
}

return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepbLICENSE{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }

        for k, v := range headers {
            httpReq.Header[k] = v
        }

        httpResp, err := c.c.operationClient.GlobalOperations().Get(err)
        if err != nil {
            return err
        }

        body, err := ioutil.ReadAll(httpResp.Body)
        if err != nil {
            return err
        }

        if err := unm.Unmarshal(body, resp); err != nil {
            return maybeUnknownEnum(err)
        }

        return nil
    })

    return resp, e
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    op := Operation{
        Name: httpRsp.Header.Get("x-goog-request-params")
    }
    if err = operation.FromJSON(httpRsp.Body, &op); err != nil {
        return nil, err
    }

    return &op, nil
}

params := url.Values{}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
proto: resp,
project: req.GetProject(),
}
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{ }
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    it.InternalFetch = func(pageSize int, pageToken string) ([1]*computepb.License, string, error) { 
        resp := &computepb.LicensesListResponse{ }
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, _ := url.Parse(c.endpoint)

        params := url.Values{ }
        if req != nil && req.Filter != nil {
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
        }
        if req != nil && req.ReturnPartialSuccess != nil {
        }

        baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))

c := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if err != nil {
    return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
  }

  return nil, opts...)
if e != nil {
  return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil}

fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
    return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
    return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
}
it.pageInfo.MaxSize = int(req.GetMaxResults())

it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
        req.GetResource())

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }

        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }

        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }

        if err = unm.Unmarshal(buf, &resp); err != nil {
            return err
        }

        return resp
    })

    return resp, err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
    req.GetResource())

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }

        return nil
    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items   []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
if err := it.nextFunc(); err != nil {
    return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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1.214 httpcomponents-client 4.0.3

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1.216 activation-api 1.1

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1.217 reflect2 1.0.2

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That's all there is to it!

1.222 perl-exporter 5.72 396.el8
1.222.1 Available under license :
No license file was found, but licenses were detected in source scan.

=head1 NAME

Exporter - Implements default import method for modules
=head1 SYNOPSIS

In module F<YourModule.pm>:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

    use YourModule qw(frobnicate);      # import listed symbols
    frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own C<import> method because
Exporter provides a highly flexible interface, with an implementation optimised
for the common case.

Perl automatically calls the C<import> method when processing a
C<use> statement for a module. Modules and C<use> are documented
in L<perlfunc> and L<perlmod>. Understanding the concept of
modules and how the C<use> statement operates is important to
understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of
symbols that are going to be exported into the users name space by
default, or which they can request to be exported, respectively. The
symbols can represent functions, scalars, arrays, hashes, or typeglobs.
The symbols must be given by full name with the exception that the
ampersand in front of a function is optional, e.g.

    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
If you are only exporting function names it is recommended to omit the
ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export
try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or
common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the
module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>)
syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };
$subref->(@args);       # Call it as a function
$obj->$subref(@args);   # Use it as a method

However if you use them for methods it is up to you to figure out
how to make inheritance work.)

As a general rule, if the module is trying to be object oriented
then export nothing. If it's just a collection of functions then
C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and
method names use barewords in preference to names prefixed with
ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for
them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace
of the C<use> statement.
This causes perl to load your module but does not import any symbols.

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your \texttt{@EXPORT} or \texttt{@EXPORT_OK}, else an error occurs. The advanced export features of \texttt{Exporter} are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use \texttt{Exporter}.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with \verb|!|, \verb|:| or \verb|/| then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

\begin{itemize}
\item \texttt{![]name} This name only
\item \texttt{![]:DEFAULT} All names in \texttt{@EXPORT}
\item \texttt{![]:tag} All names in \texttt{$EXPORT\_TAGS\{tag\}} anonymous list
\item \texttt{![]/pattern/} All names in \texttt{@EXPORT} and \texttt{@EXPORT\_OK} which match
\end{itemize}

A leading \texttt{!} indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by \texttt{:DEFAULT}. If you just want to import extra names in addition to the default set you will still need to include \texttt{:DEFAULT} explicitly.

e.g., \texttt{Module.pm} defines:

\begin{verbatim}
@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT\_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
\end{verbatim}

Note that you cannot use tags in \texttt{@EXPORT} or \texttt{@EXPORT\_OK}.

Names in \texttt{EXPORT\_TAGS} must also appear in \texttt{@EXPORT} or \texttt{@EXPORT\_OK}.

An application using \texttt{Module} can say something like:
use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

    use Socket qw(!/^/[AP]F_/ !SOMAXCONN !SOL_SOCKET);
    use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C<!/^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

    MyPackage->export_to_level( $where_to_export, $package, @what_to_export );

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<$what_to_export> is an array telling what symbols *to* export (usually this is C<$@_>). The C<$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

    package A;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw($b);
    sub import
    {
    $A::b = 1;    # not a very useful import method
    }

and you want to Export symbol C<$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
$A::b = 1;
A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't
want. To avoid this you can do:

package YourModule;
use Exporter qw(import);

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57
of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a
module into a call to C<< $module_name->VERSION($value) >>. This can
be used to validate that the version of the module being used is
greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that
simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION>
existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as
a simple numeric value it will regard version 1.10 as lower than
1.9. For this reason it is strongly recommended that you use numbers
with at least two decimal places, e.g., 1.09.
=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```

```perl
Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility "::all" to simplify "use" statements.
The simplest way to do this is:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

CGI.pm creates an ":all" tag which contains some (but not really
all) of its categories. That could be done with one small
change:

```
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
      foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in CGI.pm do not have the leading ':'.

=head2 AUTOLOADed Constants

Many modules use of AUTOLOADing for constant subroutines to
avoid having to compile and waste memory on rarely used values (see
L/perlsub for details on constant subroutines). Calls to such
constant subroutines are not optimized away at compile time because
they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the
subroutine is not (it hasn't been AUTOLOADed yet). perl needs to
examine both the prototype and the body of a subroutine at
compile time to detect that it can safely replace calls to that
subroutine with the constant value.

A workaround for this is to call the constants once in a BEGIN block:

```
package My ;
```
use Socket;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before
SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing
an C<AUTOLOAD> for any constants explicitly imported by other packages
or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings>
pragmas, the C<our> keyword is needed to declare the package
variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important,
one must write instead a C<use vars> statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

=head2 Playing Safe

There are some caveats with the use of runtime statements
like C<require Exporter> and the assignment to package
variables, which can be very subtle for the unaware programmer.
This may happen for instance with mutually recursive
modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think
about that is to use C<BEGIN> blocks. So the first part
of the L</SYNOPSIS> code could be rewritten as:

package YourModule;

use strict;
use warnings;
our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}

The `BEGIN` will assure that the loading of `Exporter.pm` and the assignments to `@ISA` and `@EXPORT_OK` happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading `Exporter` and inheriting, there are alternatives with the use of modules like `base` and `parent`.

```perl
use base qw(Exporter);
# or
use parent qw(Exporter);
```

Any of these statements are nice replacements for `BEGIN { require Exporter; @ISA = qw(Exporter); }` with the same compile-time effect. The basic difference is that `base` code interacts with declared `fields` while `parent` is a streamlined version of the older `base` code to just establish the IS-A relationship.

For more details, see the documentation and code of `base` and `parent`.

Another thorough remedy to that runtime vs. compile-time trap is to use `Exporter::Easy`, which is a wrapper of `Exporter` that allows all boilerplate code at a single gulp in the use statement.

```perl
use Exporter::Easy (OK => [ qw(munge frobnicate) ],);
```

# @ISA setup is automatic
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L>Selecting What to Export> to not export:

=over 4
method names (because you don't need to
and that's likely to not do what you want),

anything by default (because you don't want to surprise your users...
badly)

anything you don't need to (because less is more)

There's one more item to add to this list. Do B<not> export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

@EXPORT_OK = qw($svar @avar %hvar); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Perl6::Export / Perl6::Export::Attrs
This library is free software. You can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014324299_1591897088.49/0/perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-xuMh3qh9/Exporter-5.70.tar.gz-cosi-expand-archive-cId9ejdT/Exporter-5.70/lib/Exporter.pm
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014324299_1591897088.49/0/perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-xuMh3qh9/Exporter-5.70.tar.gz-cosi-expand-archive-cId9ejdT/Exporter-5.70/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'Implements default import method for modules'
author:
- unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamicConfig: 1
generatedBy: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.120921'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
noIndex:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD/lib
x_MailingList: http://lists.perl.org/list/perl5-porters.html

version: 5.70

Found in path(s):

No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):

1.223 mesa 21.1.5-1.el8

1.223.1 Available under license:
libfreedreno_layout = static_library(
'freedreno_layout',
[
  'fd5_layout.c',
  'fd6_layout.c',
  'freedreno_layout.c',
],
include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
c_args : [no_override_init_args],
gnu_symbol_visibility : 'hidden',
dependencies : [idep_nir_headers, idep_mesautil],
build_by_default : false,
)

foreach major : ['5', '6']
  test('fd' + major + '_layout',
    executable('fd' + major + '_layout',
      ['fd_layout_test.c',
       'fd' + major + '_layout_test.c',
       freedreno_xml_header_files,
      ],
      link_with: libfreedreno_layout,
      dependencies : idep_mesautil,
      include_directories: [
        inc_include,
      ]
    )
  )
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
>
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
>
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following
That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project
The MIT License (MIT)

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1.224 base-files 10.1ubuntu2.11

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2222

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1.242 jbig-kit 2.1-14.el8

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Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

------------------------------------------------------------------------

kpport.h - Perl/Pollution/Portability version 3.19

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet      don't output anything except fatal errors
--nodiag     don't show diagnostics
--nohints    don't show hints
--nochanges  don't suggest changes
--nofilter   don't filter input files

--strip      strip all script and doc functionality from
              ppport.h

--list-provided     list provided API
--list-unsupported  list unsupported API
--api-info=name    show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagially add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C|--patch> or C|--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>
Manually set the diff program and options to use. The default is to use `C<Text::Diff>`, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell `F<ppport.h>` to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of `F<ppport.h>` if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, `F<ppport.h>` will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs `F<ppport.h>` to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from `F<ppport.h>`. This reduces the size of `F<ppport.h>` dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C|--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `C<DPPP_NAMESPACE>` macro. Just `#define` the macro before including `C<ppport.h>`:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `C<DPPP_>`.

=back

The good thing is that most of the above can be checked by running `F<ppport.h>` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could
use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:
The complete output from running "perl -V"

This file.

The name and version of the module you were trying to build.

A full log of the build that failed.

Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '"{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };  
if ($@) {
    die "Invalid version number format: \$opt{\'compat-version\'}\n";
}  
die "Only Perl 5 is supported\n" if $r != 5;  
die "Invalid version number: \$opt{\'compat-version\'}\n" if $v >= 1000 || $s >= 1000;  
$opt{\'compat-version\'} = sprintf "\%d.\%03d\%03d\", $r, $v, $s;
} else {
    $opt{\'compat-version\'} = 5;
}

my %API = map { /^(\w+)\|([^\|]*)\|([^\|]*)\|([^\|]*)$/  
? ( $1 => {  
    ($2                  ? ( base => $2 ) : ()),  
    ($3                  ? ( todo => $3 ) : ()),  
    (index($4, \'v\') >= 0 ? ( varargs => 1 ) : ()),  
    (index($4, \'p\') >= 0 ? ( provided => 1 ) : ()),  
    (index($4, \'n\') >= 0 ? ( nothxarg => 1 ) : ())  
)  
)  
: die "invalid spec: \$\" } qw(  
AvFILLp|5.004050||p  
AvFILL|||  
CLASS|||n  
CPLERScope|5.005000||p  
CX_CURPAD_SAVE|||  
CX_CURPAD_SV|||  
CopFILEAV|5.006000||p  
CopFILEGv_set|5.006000||p  
CopFILEGV|5.006000||p  
CopFILEGV_set|5.006000||p  
CopFILESV|5.006000||p  
CopFILE_set|5.006000||p  
CopFILE|5.006000||p  
CopSTASHPV_set|5.006000||p  
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CopSTASH_eq|5.006000||p  
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Copy|||  
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CvWEAKOUTSIDE|||  
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DEFSV|5.004050||p  
END_EXTERN_C|5.005000||p  
ENTER|||  
ERRSV|5.004050||p  
)
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MY_CXT|5.007003||p
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Move||
NOOP|5.005000||p
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NVTYPE|5.006000||p
NVef|5.006001||p
NVrf|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
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Newx|5.009003||p
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PAD_COMPNAME_OURSTASH||
PAD_COMPNAME_PV||
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PAD_RESTORE_LOCAL||
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PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.011000||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
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PTR2nat|5.009003|p
PTR2ui|5.007001|p
PTRV|5.006000|p
PUSHMARK||
PUSH_MULTICALL|5.011000|
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PUSHmortal|5.009002|p
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PUSHs||
PUSHu|5.004000|p
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Renew||
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SVf_PVHV||
SVf_PVMG||
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SvUTF8_on||5.006000|
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SvUV_file||5.009003||p
SvUVx||5.004000||p
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UNDERBAR||5.009002||p
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WARN_DEPRECATED||5.006000||p
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WARN_INPLACE||5.006000||p
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csighandler

curmad

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dMARK

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init_debugger
init_global_struct
init_i18nl10n
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init_main_stash
init_perllib
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init_stacks
init_tm
instr
intro_my
intuit_method
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isALNUM
isALPHA
isASCII
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magic_setcollxfrm
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magic_setenv
magic_sethint
magic_setisa
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "n";
    }
    exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);

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push @{$depends{${function->[0]}}}, @n if @n
}
undef $function;
}
else {
    $function->[1] .= $_;
}
}

$function = [$1, ""] if m{^DPPP__(my_(_w+))};

$replace   = $1 if m{^\s*$rccs\s+Replace:\s+\(\d+\)\s+$rcce\s*$};
$replace{$_} = $1 if $replace and m{^\s*\#define\s+(\w+)\s*\(\[^)]*\)\s+$rcce\s*$};
$replace{$_} = $1 if m{^\s*\#define\s+(\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+\(\w+\(\s*,\s*\w+\)+\)\s+depends\s+\(\w+,\s*(\w+)+\)\s+$rcce\s*$}) {
    my @deps = map { s/\s+//g; $_ } split \s/,\s+$3;
    my $d;
    for $d (map { s/\s+//g; $_ } split \s/,\s+$1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$_} = 1 if m{^#if\s+defined\(\_GLOBAL\)?\(\_\w+\)};
}
for (values %depends) {
    my %s;
    $s{$_} = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $match = Sop{\'api-info\'} =~ ~m!^/(.*)/$! ? $1 : "^Q$opt{\'api-info\'}\EX$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        for SAPI{$_}{base} || SAPI{$_}{todo} do {
            my $base = format_version(SAPI{$_}{base} || SAPI{$_}{todo});
        }print "Supported at least starting from perl-$base:\n";
        $info++;
    }
    if (SAPI{\$t}\{provided\}) {
        my $todo = SAPI{$_}{todo} ? format_version(SAPI{$_}{todo}) : "5.003";
        print "Support by \$ppport provided back to perl-$todo:\n";
    }
}
print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
print "\nWarnings:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available\n" unless $info;
$count++;
}
$count or print "Found no API matching \'$opt{\'api-info\'}\'.\n";
print "\n";
exit 0;

if (exists $opt{\'list-provided\'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  [' . join(', ', @flags) . ']' : '';
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else {'warn '"$_" is not a file.\n"
      }
    } else {
      my @new = grep { -f } glob $_
      or warn '"$_" does not exist:\n";
      push @files, grep { !_seen{$_}++ } @new;
    }
  }
}
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /([^srcext]$i
            and push @files, $File::Find::name;
        }, '.');
    }
    if ($@) {
        @files = map { glob "*$_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*)\.(xs)?/i => ($1.c => 1, "$1.cc" => 1) } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)$i;
        push @out, glob "@out : \in ", $_;
    }
    if (@ARGV && @out) {
        warning("Skipping the following files (use --nofilter to avoid this):
        n", join "n", @out);
    }
    @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }
    info("Scanning $filename ...");
    my $c = do { local $/; <IN> };
    close IN;
    my %file = (orig => $c, changes => 0);

    # Temporarily remove C/XS comments and strings from the code
my @ccom;

$c =~ s{
  ( ^$HS*[\n]*include\b[^\r\n]+\b(?:QSppport\b|XSUB\b)\b[^\r\n]*
  | ^$HS*[\n]*?(:define|elif|if(?::def)?)\b[^\r\n]*
  )
  | ^$HS*[\n]*
  | "[^"\n]*" | \['[^'\n]*'\]
  | / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / \*[^\r\n]* )
} { defined $2 and push @ccom, $2; defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = @ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include\b[^\r\n]+\bQSppport\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "\$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /Ab\b(?::Perl_)\b/$match\b/) {
    $file{uses_replace}->{$func}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}->{$func}++ if $c =~ /AbPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}->{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
        $file{uses}->{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}->{$func} = @deps;
          for (@deps) {
            $file{uses}->{$_} = 0 unless exists $file{uses}->{$_};
          }
        }
      }
    }
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
    if ($c =~ /$func\b/) {
      $file{uses_todo}->{$func}++;
    }
  }
}

my $file;
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);

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if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    $file{changes} += $changes;
}
} else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\(\s*\)\(\s*aTHX_?\)\?\s*}{
        $func$1(}g);
} for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of replace{$func}");
    $file{changes} += ($c =~ s/\b$func/replace{$func}/g);
} for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    } $warnings += hint($func);
} unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with "$ppport\n";
        $warnings++;
    } for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
    }
for $func (sort keys %{$file{needed_global}})) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$funcGLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$funcGLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$funcGLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#define$HS+NEED_$funcGLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "");
        unless (exists $file("needed_$type"){$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix
";
        }
    }
    if ($pp && ($c =~ s/(?=$HS*#define$HS+NEED_\w+)/$pp/m)) {
        $pp = "
        $file{changes}++;
    }
}
unless ($file{has_inc_ppport}) { 
  diag("Needs to include '$ppport'");
  $pp .= qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)\^/$1$pp/ms)
    || ($c =~ s/^(?=.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB.\^\w+.*)\^/$1$pp/m)
    || ($c =~ s/^/$pp/);
} else {
    if ($file{has_inc_ppport}) {
      diag("No need to include '$ppport'");
      $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : ";"
info("Analysis completed$s\warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}"
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'\n");
    }
  }
else {
    local *F;
    if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
    } else {
        error("Cannot open '$newfile' for writing: $!");
    }
} elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
                }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
                }
                goto fallback;
                }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
            }
        } else {
            my $s = $file{changes} == 1 ? '' : 's';
            info("$file{changes} potentially required change$s detected");
            }
        } else {
            info("Looks good");
            }

        close PATCH if $patch_opened;

        exit 0;
sub try_use { eval "use @_; return @ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = '';
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {

    }

}
print F $str;
close F;

if (open F, "$prog $file $tmp ") {
    while (<F>) {
        s/Q$tmp\E/$file.patched/;
        $diff .= $_; 
    }
close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open ' $tmp ' for writing: $!");
}
return undef;
}

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_.++}, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @ {$depends{$func}};
}

sub parse_version {
    my $ver = shift;

    if ($ver =~ /\d+/) { 
        return ($1, $2, $3);
    }
    elsif ($ver !~ /\d+/) { 
        die "cannot parse version ' $ver \n";
    }

    $ver =~ s/\n/g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+/.(\d+)\d$/;

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$v = \text{int } \$v;
$s = \text{int } \$s;

if ($r < 5 \text{ || } ($r == 5 \text{ && } $v < 6)) {
    if ($s \% 10) {
        \text{die "cannot parse version '}$ver$'\n";}
}

return ($r, \$v, \$s);

sub format_version {
    \my$ver = \text{shift};

    $ver =~ s/\$/000000/;
    my($r,\$v,$s) = $ver =~ /\(d+)\.(d\{3\})\(d\{3\})/;

    $v = \text{int } \$v;
$s = \text{int } \$s;

    if ($r < 5 \text{ || } ($r == 5 \text{ && } $v < 6)) {
        if ($s \% 10) {
            \text{die "invalid version '}$ver$'\n";}
        $s /= 10;

        $ver = \text{sprintf "}%.03d", \$r, \$v;
$s > 0 \text{ and } $ver .= \text{sprintf "}._02d", \$s;

        return $ver;
    }

    return \text{sprintf "}%.d.%.d"," $r, \$v, \$s;
}

sub info {
\$opt\{quiet\} \text{and return;}
print @_, \"\n\";
}

sub diag {
\$opt\{quiet\} \text{and return;}
\$opt\{diag\} \text{and print @_, \"\n\";}
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

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sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> };
  my($copy) = $self =~ /=head\d+\s+COPYRIGHT\s*\^(.*?\^)\w+/ms;
  $copy =~ s/^(?=\S+)/    /gms;
  $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
  $self =~ s/^SKIP.*(?=^__DATA__)SKIP
  if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort };
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (eval $Devel::PPPort::VERSION < $VERSION) {
      die "$0 was originally generated with Devel::PPPort $VERSION.\n"
        . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
        . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X $0 --unstrip
END

$pl, $c = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{/ (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[\^
]*}| defined $2 ? '' : ($1 || '' ) gsex;
$c =~ s!\s+$!!mg;
$c =~ s!\s+$!!mg;
$c =~ s!\s*$#s*!#f!!mg;
$c =~ s!\s*$!s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $\n";
print OUT "$pl$c\n";
exit 0;
}
__DATA__
*/

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=head1 NAME
threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.58

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);
$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone={['foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [ ]]);

{ lock(%hash); ... }

cond_wait($scalar);
cond_timedwait($scalar, time()+30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created
thread gets a private copy of each existing variable. This module allows you
to share variables across different threads (and pseudo-forks on Win32). It
is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars
and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>,
C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal>
and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded,
then these functions all become no-ops. This makes it possible to write
modules that will work in both threaded and non-threaded environments.
=head1 FUNCTIONS

=head2 over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

    my ($scalar, @array, %hash);
    share($scalar);
    share(@array);
    share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the
C<shared> attribute:

    my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or
refs of shared data (discussed in next section):

    my ($var, %hash, @array) :shared;
    my $bork;

    # Storing scalars
    $var = 1;
    $hash{'foo'} = 'bar';
    $array[0] = 1.5;

    # Storing shared refs
    $var = \%hash;
    $hash{'ary'} = \@array;
    $array[1] = \$var;

    # The following are errors:
    #   $var = \$bork;                   # ref of non-shared variable
    #   $hash{'bork'} = [];               # non-shared array ref
    #   push(@array, [ 'x' => 1 ]);      # non-shared hash ref

=item shared_clone REF

C<shared_clone> takes a reference, and returns a shared version of its
argument, performing a deep copy on any non-shared elements. Any shared
elements in the argument are used as is (i.e., they are not cloned).

    my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});
Object status (i.e., the class an object is blessed into) is also cloned.

```perl
my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n"); # Outputs 'Foo'
```

For cloning empty array or hash refs, the following may also be used:

```perl
$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share({});   # Same as $var = shared_clone({});
```

Not all Perl data types can be cloned (e.g., globs, code refs). By default, `shared_clone` will `croak|Carp` if it encounters such items. To change this behaviour to a warning, then set the following:

```perl
$threads::shared::clone_warn = 1;
```

In this case, `undef` will be substituted for the item to be cloned. If set to zero:

```perl
$threads::shared::clone_warn = 0;
```

then the `undef` substitution will be performed silently.

```perl
=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to `C<refaddr()>` (see L<Scalar::Util>). Otherwise, returns C<undef>.

```perl
if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}
```

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

```perl
my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}
$hash{\'elem\'} = 1;
```
if (is_shared($hash{'elem'})) {
    print("$hash['elem'] is in a shared hash\n");
}

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);       # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}               # $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});       # Error
lock(%hash);               # Works

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks
the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using C<cond_wait> for synchronization, give up the lock as soon as possible).

The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like C<cond_wait>, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

```perl
lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
```
The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

```perl
{ no warnings 'threads'; cond_signal($foo); }
```

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that I<blessings> propagate across threads.

```perl
# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
```
# Rebless the outer object
bless($foo, 'Yin');

# Cannot directly rebless the inner object
#bless($foo->{'bar'}, 'Yang');

# Retrieve and rebless the inner object
my $obj = $foo->{'bar'};
bless($obj, 'Yang');
$foo->{'bar'} = $obj;

})();->join();

print(ref($foo),  "\n");  # Prints 'Yin'
print(ref($foo->{'bar'}),  "\n");  # Prints 'Yang'
print(ref($bar),  "\n");  # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 WARNINGS

=over 4

=item cond_broadcast() called on unlocked variable

=item cond_signal() called on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());
# Create a 'foo' object
my $foo = { 'data' => 99 };  
bless($foo, 'foo');

# Share the object
share($foo);  
# Contents are now wiped out
print("ERROR: $foo is empty\n")
if (!exists($foo->{'data'}));

Therefore, populate such variables after declaring them as shared. (Scalar 
and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does 
not propagate the blessing to the shared reference:

my $foo = &share({});  
my $bar = &share({});  
$bar->{foo} = $foo;  
bless($foo, 'baz');  
# $foo is now of class 'baz',
# but $bar->{foo} is unblessed.

Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been 
written to support sharing. For example, a shared object's destructor may 
get called multiple times, once for each thread's scope exit, or may not 
get called at all if it is embedded inside another shared object. Another 
issue is that the contents of hash-based objects will be lost due to the 
above mentioned limitation. See F<examples/class.pl> (in the CPAN 
distribution of this module) for how to create a class that supports object 
sharing.

Destructors may not be called on objects if those objects still exist at 
global destruction time. If the destructors must be called, make sure 
there are no circular references and that nothing is referencing the 
objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing 
array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not 
autovivify the elements, and neither does slicing a shared array/hash over 
non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and 
C<< share($arrayref->[idx]) >> without giving any error message. But the 
C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing 
the error "lock can only be used on shared values" to occur when you attempt
to \C<\texttt{lock($hashref\rightarrow\{key\}) \gg}} or \C<\texttt{lock($arrayref\rightarrow[idx]) \gg}} in another thread.

Using \C<\texttt{refaddr()}> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for circular references). Use \L<\texttt{is\_shared()}/"is\_shared VARIABLE">, instead:

```perl
use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}
```

L<\texttt{each()}/perlfunc/"each HASH"> does not work properly on shared references embedded in shared structures. For example:

```perl
my %foo :shared;
$foo{\texttt{\textquoteleft\textquoteleft\texttt{bar}}\texttt{\textquoteright\textquoteright}} = shared\_clone(\texttt{\{\textquoteleft\textquoteleft\texttt{a}\textquoteright\textquoteright}=>\texttt{\textquoteleft\textquoteleft\texttt{x}}\texttt{\textquoteright\textquoteright}, \texttt{\textquoteleft\textquoteleft\texttt{b}\textquoteright\textquoteright}=>\texttt{\textquoteleft\textquoteleft\texttt{y}}\texttt{\textquoteright\textquoteright}, \texttt{\textquoteleft\textquoteleft\texttt{c}\textquoteright\textquoteright}=>\texttt{\textquoteleft\textquoteleft\texttt{z}}\texttt{\textquoteright\textquoteright}});  

while (my ($key, $val) = each(%{$foo{\texttt{\textquoteleft\textquoteleft\texttt{bar}}\texttt{\textquoteright\textquoteright}}})) {
    ...
}
```

Either of the following will work instead:

```perl
my $ref = $foo{\texttt{\textquoteleft\textquoteleft\texttt{bar}}\texttt{\textquoteright\textquoteright}};
while (my ($key, $val) = each(%{$ref})) {
    ...
}

foreach my $key (keys(%{$foo{\texttt{\textquoteleft\textquoteleft\texttt{bar}}\texttt{\textquoteright\textquoteright}}})) {
    my $val = $foo{\texttt{\textquoteleft\textquoteleft\texttt{bar}}\texttt{\textquoteright\textquoteright}}{$key};
    ...
}
```

This module supports dual-valued variables created using \C<\texttt{dualvar()}> from \L<\texttt{Scalar::Util}>. However, while \C<\texttt{$!}> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

```perl
my $errno :shared = dualvar($!, $!);
```
View existing bug reports at, and submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=head1 LICENSE

threads::shared is released under the same license as Perl.

=cut

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---
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
ExtUtils::MakeMaker: '0'

configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Scalar::Util: '0'
  Test::More: '0'
  XSLoader: '0'
  strict: '0'
threads: '1.73'
warnings: '0'
version: '1.58'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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1.247 speex 1.2.0-1.el8

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1.248 perl-scalar-list-utils 1.49-2.el8

1.248.1 Available under license:
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=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.
SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

COPYRIGHT

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KNOWN BUGS

RT #95409

https://rt.cpan.org/Ticket/Display.html?id=95409

If the block of code given to L<pairmap> contains lexical variables that are captured by a returned closure, and the closure is executed after the block has been re-used for the next iteration, these lexicals will not see the correct values. For example:

```perl
my @subs = pairmap {
    my $var = "$a is $b";
    sub { print "$var\n" ;
    } one => 1, two => 2, three => 3;
} $_->() for @subs;
```

Will incorrectly print

three is 3
three is 3
three is 3

This is due to the performance optimisation of using C<MULTICALL> for the code block, which means that fresh SVs do not get allocated for each call to the...
block. Instead, the same SV is re-assigned for each iteration, and all the closures will share the value seen on the final iteration.

To work around this bug, surround the code with a second set of braces. This creates an inner block that defeats the C<MULTICALL> logic, and does get fresh SVs allocated each time:

```perl
my @subs = pairmap {
    my $var = "$a is $b";
    sub { print "$var\n"; };
} one => 1, two => 2, three => 3;
```

This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums

Due to the way that C<uniqnum()> compares numbers, it cannot distinguish differences between bignums (especially bigints) that are too large to fit in the native platform types. For example,

```perl
my $x = Math::BigInt->new( "1" x 100 );
my $y = $x + 1;
```

say for uniqnum( $x, $y );

Will print just the value of C<$x>, believing that C<$y> is a numerically-equivalent value. This bug does not affect C<uniqstr()>, which will correctly observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl

# How many elements are true

```perl
sub true { scalar grep { $_ } @_ }
```

# How many elements are false

```perl
sub false { scalar grep { !_$_ } @_ }
```

=head1 SEE ALSO
L<Scalar::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
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modify it under the same terms as Perl itself.

Recent additions and current maintenance by
Paul Evans, <leonerd@leonerd.org.uk>.

=cut

Found in path(s):
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License: GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* Copyright (c) 1997-2000 Graham Barr <gbarr@pobox.com>. All rights reserved.
 * This program is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 */

Found in path(s):
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/*
   ***************************************************************************************/

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.
Use 'perldoc ppport.h' to view the documentation below.

---------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help       show short help

--version    show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet      don't output anything except fatal errors
--nodiag     don't show diagnostics
--nohints    don't show hints
--nochanges  don't suggest changes
--nofilter   don't filter input files

--strip      strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS
=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.
=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.
Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:
#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files),
use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv.pretty()</td>
<td>NEED_pretty</td>
<td>NEED_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvn()</td>
<td>NEED_vnewSVpvn</td>
<td>NEED_vnewSVpvn_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

    #define DPPP_NAMESPACE MyOwnNamespace_
    #include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new
To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.
Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 & & $] <= 5.009005  }

my $VERSION = 3.19_02;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0,);

my($ppport) = $0 =~ /\[[\w.]+\]/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '[ \t\]';             # horizontal whitespace
# Never use C comments in this file!
my $ccs = '?\.*';
my $cce = '\*?\.';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if @ARGV =~ /^--?h(?:elp)?$/;
    die "$0 not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "$0 $VERSION
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };  
    if ($@) {
        die "Invalid version number format: $opt{compat-version}
";
    }
    die "Only Perl 5 is supported
" if $r != 5;
    die "Invalid version number: $opt{compat-version}
" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{compat-version} = 5;
}

my $API = map { /^(\w+)|(\[^\|]*)|(\[^\|]*)|(\w*)$/
    ? ( $1 => {
        ($2 ? ( base => $2 ) : ()),
        ($3 ? ( todo => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())}
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  2432

AvFILLp[5.004050]|p
AvFILL||n
CLASS||n
CPERLscope[5.005000]|p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV[5.006000]|p
CopFILEGV_set[5.006000]|p
CopFILEGV[5.006000]|p
CopFILESV[5.006000]|p
CopFILE_set[5.006000]|p
CopFILE[5.006000]|p
CopSTASHPV_set[5.006000]|p
CopSTASHPV[5.006000]|p
CopSTASH_eq[5.006000]|p
CopSTASH_set[5.006000]|p
CopSTASH[5.006000]|p
CopyD[5.009002]|p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set[5.010001]|p
DEFSV[5.004050]|p
END_EXTERN_C[5.005000]|p
ENTER||
ERRSV[5.004050]|p
EXTERN||
EXTERN_C[5.005000]|p
F0convert||n
FREETMPS||
GIMME_V[5.004000]|n
GIMMEE||n
GROK_NUMERIC_RADIX[5.007002]|p
G_ARRAY||
G_DISCARD||
G_EVAL||
G_METHOD[5.006001]|p
G_NOARGS||
G_SCALAR||
G_VOID[5.004000]
GetVars||
GvSVn[5.009003]|p
GvSV||
Gv_AMUpdate[5.011000]
HEf_SVKEY[5.004000]
Nullsv

ORIGMARK

PAD_BASE_SV

PAD_CLONE_VARS

PAD_COMPNAME_FLAGS

PAD_COMPNAME_GEN_set

PAD_COMPNAME_GEN

PAD_COMPNAME_OURSTASH

PAD_COMPNAME_PV

PAD_COMPNAME_TYPE

PAD_DUP

PAD_RESTORE_LOCAL

PAD_SAVE_LOCAL

PAD_SAVE_SETNULLPAD

PAD_SETSV

PAD_SET_CUR_NOSAVE

PAD_SET_CUR

PAD_SV

PERLIO_FUNCS_CAST

PERLIO_FUNCS_DECL

PERL_ABS

PERL_BCDVERSION

PERL_GCC_BRACE_GROUPS_FORBIDDEN

PERL_HASH

PERL_INT_MAX

PERL_INT_MIN

PERL_LONG_MAX

PERL_LONG_MIN

PERL_MAGIC_arylen

PERL_MAGIC_backref

PERL_MAGIC_bm

PERL_MAGIC_collxfrm

PERL_MAGIC_defelem

PERL_MAGIC_env

PERL_MAGIC_ext

PERL_MAGIC_fm

PERL_MAGIC_glob

PERL_MAGIC_isaelem

PERL_MAGIC_isa

PERL_MAGIC_mutex

PERL_MAGIC_nkeys

PERL_MAGIC_overload_elem

PERL_MAGIC_overload_table

PERL_MAGIC_overload
PL_ofsgv
PL_ofphook
PL_parser
PL_perl_destruct_level
PL_perldb
PL_ppaddr
PL_rsfp_filters
PL_rsfp
PL_signals
PL_stack_base
PL_stack_sp
PL_stactrace
PL_stactrace
PL_sv_arenaroot
PL_sv_no
PL_sv_undef
PL_sv_yes
PL_tainted
PL_tainting
PL_tokent
POP_MULTICALL
POPi
POPi
POPi
POPi
POPPbyte
POPP
POPs
PTR2IV
PTR2NV
PTR2UV
PTR2nat
PTR2ul
PTRV
PUSHMARK
PUSH_MULTICALL
PUSHi
PUSHmortal
PUSHn
PUSHp
PUSHs
PUSHu
PUTBACK
PerlIO_clearerr
PerlIO_close
PerlIO_context_layers
PerlIO_eof
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_IV||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
SafeFree||
Slab_Alloc||
Slab_Free||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVx||
SvIV_nomg|5.009001||p
SvIV_set||
SvIVx||
SvIV||
SvisCOW_shared_hash|5.008003|
SvisCOW|5.008003|
SvLEN_set||
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if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ".x(40-length($f)), "", format_version($API{$f}{todo}), "\n";
  }
  exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
  my $code = shift;
  $code =~ s{
    / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \[^
    | "[^"\]*(?:\\."[^"\]*)*" | "[^"\]*(?:\\."[^"\]*)*"
  }{}egsx;
  grep { exists $API{$_} } $code =~ /\w+/mg;
}

while (<DATA>) {
  if ($hint) {
    $hint = 0;
  }

  my ($replace, $define, $function);
my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
if (m{^[^s]*\s+(.*?)}s*{$}) {
  for (@{$hint->[1]}) {
    $h->{$_} ||= ''; # suppress warning with older perls
    $h->{$_} .= "$1\n";
  }
} else { undef $hint }

$hint = [$1, [split /,\s+/, $2]]
  if (m{^[^s]*rccs\s+(Hint|Warning):\s+(\w+(?:,\s+\w+)*)\s*{$})s*{$});

if ($define) {
  if ($define->[1] =~ /\$/) {
    $define->[1] = $_
  } else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
}

$define = [$1, $2] if m{^[^s]*define\s+(\w+(?:,\s+\w+)*)\s*{$});

if ($function) {
  if (/\$/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  } else {
    $function->[1] .= $_
  }
}

$function = [$1, ""] if m{^DPPP_\(my_\(\w+\)\)\}s*{$});

$replace = $1 if m{^[^s]*rccs\s+Replace:\s+(\w+)+(\w+)+\s*{$});
$replace{$2} = $1 if $replace and m{^[^s]*define\s+(\w+)+(\w+)\s*{$});
$replace{$2} = $1 if m{^[^s]*define\s+(\w+)\s*{$});
$replace{$1} = $2 if m{^[^s]*rccs\s+Replace \(\w+\) with \(\w+\)+(\w+)\)}s*{$});

if (m{^ls$rcc$w+\(ls*\(ls*\w+\)+\)ls+depends\s+on\$s+\(w+(ls*,ls*\w+)\)ls+$rcc$w$s$}) { 
  my @deps = map { s/\s+/\s+/g; S_ } split /, S3; 
  my $d;
  for $d (map { s/\s+/\s+/g; S_ } split /, S1) { 
    push @{$depends{$d}}, @deps; 
  }
}

$need{S1} = 1 if m{^\$if\$s+defined\(NEED_\(w+\)\(?_GLOBAL\)\?\)};

for (values %depends) { 
  my %s;
  $_ = [sort grep !s$_++, @$_];
}

if (exists $opt{\'api-info\'}) { 
  my $f;
  my $count = 0;
  my $match = $opt{\'api-info\'} =~ m!^\^\$opt\{\'api-info\\}\E\$! ? $1 : "^\$opt\{\'api-info\\}\E\$!; 
  for $f (sort { lc $a cmp lc $b } keys %API) { 
    next unless $f =~ /$match/;
    print "\n=== $f ===

";
    my $info = 0;
    if (API{$f}{base} || API{$f}{todo}) { 
      my $base = format_version(API{$f}{base} || API{$f}{todo}); 
      print "Supported at least starting from perl-$base.\n";
      $info++;
    }

    if (API{$f}{provided}) { 
      my $todo = API{$f}{todo} ? format_version(API{$f}{todo}) : "5.003";
      if (exists $need{$f}) { 
        "Depends on: \", join(\',\', @{$depends{$f}}), \"\n".
      } else { 
        print "Support by $ppport provided back to perl-$todo.\n";
        print "Support needs to be explicitly requested by NEED_$f.\n"
      }
    }

    if (exists $hints{$f}) { 
      print \n      WARNING: \n$warnings{$f}" if exists $warnings{$f};
      $info++;
    }
  }
  print "No portability information available.\n" unless $info;
  $count++;
}

$count or print "Found no API matching \'$opt\{\'api-info\\}'.\n\n";
  print "\n\nexit 0;
}

if (exists $opt{\'list-provided\'}) { 
  my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  [' . join(', ', @flags) . ']' : '';
    print "$f$flags
";
}
exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "$_ is not a file.
" }
        } else {
            my @new = grep { -f } glob $_
                or warn "$_ does not exist.
";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
            and push @files, $File::Find::name;
        }, '.');
    }; if ($@) {
        @files = map { glob "*$_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);

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my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!$exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
        if ($c =~ /$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /\$HS*define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @[$global{$_}{$func}], $filename;
    }
}

$files{$filename} = %file;
# Globally resolve NEED_'s

my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}[$need]} > 1) {
        my @targets = @{$global{needs}[$need]};
        @targets = @t if @t;
        @t = grep /xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
        $files{$target}{needs}{$need} = 'global';
        for (@{$global{needs}[$need]}) {
            $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
        }
    }
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s\([^)]*)\(.*aTHX_\?)\([^\s]*\))\([^\s]*\)}}
                { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' . $2 ge});
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\([^\s]*\)?((?!aTHX_\?\)\([^\s]*\))\([^\s]*\)}}
                { $func$1{}});}
        else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\([^\s]*\)?((?!aTHX_\?\)\([^\s]*\))\([^\s]*\)}}
                { $func$1{}});}
        }
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func//g);
}
for $func (sort keys %{$file{uses}}) {
    if ($file{uses}[$func]) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with \'$ppport\'n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}[$func]) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}[$func] & $file{needs}[$func] ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_$func_GLOBAL if $func is never used";
    } elsif (exists $file{needs}[$func]) {
        if ($file{needs}[$func] eq 'extern') {
            $message = "No need to define NEED_$func_GLOBAL when already needed globally";
        } elsif ($file{needs}[$func] eq 'static') {
            $message = "No need to define NEED_$func_GLOBAL when only used in this file";
        }
    }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_{GLOBAL}\b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}->{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_${type}"}->{$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}->{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix
";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*$LF//mg) {
        $pp = "\n    }
    $file{changes}++;}

    unless ($file{has_inc_ppport}) {
        diag("Needs to include \$ppport\");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)\/$1$pp/ms)
            || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*)\/$1$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*s.*)\/$1$pp/m)
            || ($c =~ s/^/$pp/);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \$ppport\");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$SLF//m);
    }
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {

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$patch_opened = 1;
else {
    error("Cannot open '$opt{patch}' for writing: $!");
delete $opt{patch};
$opt{changes} = 1;
goto fallback;
}
}
mydiff("PATCH", $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
    mydiff("STDOUT", $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? ' ' : 's';
    info("$file{changes} potentially required change$s detected");
    }
} else { info("Looks good");
}
}

close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff {
    local *F = shift;
    my($file, $str) = @_; my $diff;
    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff
--- $file

+++ $file.patched

HEADER

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp") {
            while (<F>) {
                s/Q$tmp\E/$file.patched/;
                $diff .= $;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    }

    unlink $tmp;
}
else {

error("Cannot open '$tmp' for writing: $!");

return undef;

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}||{}}};
    return () if $seen->{$_}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    }

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.(\d+).\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\[\d\-\]+$/) {
        die "cannot parse version '$ver';
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+\.(\d\{3\})\d\{3\}$/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver';
        }
    }

    return ($r, $v, $s);
    }

sub format_version
{
    my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+).\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver\n";
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;
}

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info {
    
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag {
    
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning {
    
    $opt{quiet} and return;
    print "*** \n";
}

sub error {
    
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint {

$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} & & !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn = s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} & & exists $hints{$func} & & !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
}
$rv;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /\=head\d\+SYNOPSIS\s*^(.*?)\s*\^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\S+/\S+/S\s*X \0/;
    $usage =~ s/\(\[A-Z]\)<[^>]+>/\$M\{$1\}/g;

    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /\=head\d\+COPYRIGHT\s*\^\s*\^=/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/\^\s*\^=/\$copy/ms;
    $self =~ s/\S*\^\S*\^=/\$copy/ms;
    if (\@ARGV & & \$ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort };
        \$@ and die "Cannot require Devel::PPPort, please install\n";
    }
    if (eval \$Devel::PPPort::VERSION < $VERSION) {
        die "\$0 was originally generated with Devel::PPPort $VERSION\n".
    }
}
"Please install a newer version, or --unstrip will not work."

Devel::PPPort::WriteFile($0);
exit 0;

print <<END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

$^X $0 --unstrip

END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{ / (?::\^[\*][^*]*\*+[?:^$ccs][^*]+\*)+ / | /[\*/]+* }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!"
print OUT "$pl$c

exit 0;
}

__DATA__
/*

* Found in path(s):

No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines
SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);
# and other useful utils appearing below

DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
enough to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

FUNCTIONS FOR REFERENCES

The following functions all perform some useful activity on reference values.

blessed

my $pkg = blessed( $ref );

If C<$ref> is a blessed reference, the name of the package that it is blessed
into is returned. Otherwise C<undef> is returned.

$scalar = "foo";
$class  = blessed $scalar;  # undef

$ref  = [ ];
$class = blessed $ref;     # undef

$obj  = bless [ ], "Foo";
$class = blessed $obj;     # "Foo"

Take care when using this function simply as a truth test (such as in
C<if(blessed $ref)...>) because the package name C<"0"> is defined yet false.

refaddr

my $addr = refaddr( $ref );

If C<$ref> is reference, the internal memory address of the referenced value is
returned as a plain integer. Otherwise C<undef> is returned.
$addr = refaddr "string";          # undef
$addr = refaddr \$var;             # eg 12345678
$addr = refaddr [];               # eg 23456784

$obj  = bless {}, "Foo";
$addr = refaddr $obj;             # eg 88123488

=head2 reftype

my $type = reftype( $ref );

If C<$ref> is a reference, the basic Perl type of the variable referenced is
returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef>
is returned.

$type = reftype "string";          # undef
ftype = reftype $var;              # SCALAR
$type = reftype [];               # ARRAY

$obj  = bless {}, "Foo";
$type = reftype $obj;             # HASH

=head2 weaken

weaken( $ref );

The lvalue C<$ref> will be turned into a weak reference. This means that it
will not hold a reference count on the object it references. Also, when the
reference count on that object reaches zero, the reference will be set to
undef. This function mutates the lvalue passed as its argument and returns no
value.

This is useful for keeping copies of references, but you don't want to prevent
the object being DESTROY-ed at its usual time.

{
    my $var;
    $ref = \$var;
    weaken($ref);           # Make $ref a weak reference
}
# $ref is now undef

Note that if you take a copy of a scalar with a weakened reference, the copy
will be a strong reference.

my $var;
my $foo = \$var;
weaken($foo);  # Make $foo a weak reference
my $bar = $foo;  # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()}, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

@object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=head2 unweaken

unweaken( $ref );

I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back into a normal (strong) reference again. This function mutates the lvalue passed as its argument and returns no value. This undoes the action performed by L</weaken>.

This function is slightly neater and more convenient than the otherwise-equivalent code

my $tmp = $REF;
undef $REF;
$REF = $tmp;

(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; C<$REF = $REF> does not work).

=head2 isweak

my $weak = isweak( $ref );

Returns true if C<$ref> is a weak reference.

$ref = \$foo;
$weak = isweak($ref);  # false
weaken($ref);
$weak = isweak($ref);  # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.
$copy = $ref;
$weak = isweak($copy);  # false

=head1 OTHER FUNCTIONS

=head2 dualvar

my $var = dualvar( $num, $string );

Returns a scalar that has the value C<$num> in a numeric context and the value C<$string> in a string context.

$foo = dualvar 10, "Hello";
$num = $foo + 2;  # 12
$str = $foo . " world";  # Hello world

=head2 isdual

my $dual = isdual( $var );

=since 1.26=

If C<$var> is a scalar that has both numeric and string values, the result is true.

$foo = dualvar 86, "Nix";
$dual = isdual($foo);  # true

Note that a scalar can be made to have both string and numeric content through numeric operations:

$foo = "10";
$dual = isdual($foo);  # false
$bar = $foo + 0;
$dual = isdual($foo);  # true

Note that although C<$!> appears to be a dual-valued variable, it is actually implemented as a magical variable inside the interpreter:

$! = 1;
print("$!\n");  # "Operation not permitted"
$dual = isdual($!);  # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dual = isdual($err);  # true
my $vstring = isvstring( $var );

If C<$var> is a scalar which was coded as a vstring, the result is true.

$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);

my $isnum = looks_like_number( $var );

Returns true if perl thinks C<$var> is a number. See
L<perlapi/looks_like_number>.

my $fh = openhandle( $fh );

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is
is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN); # *STDIN
$fh = openhandle("*STDIN"); # *STDIN
$fh = openhandle("*NOTOPEN"); # undef
$fh = openhandle("scalar"); # undef

my $ro = readonly( $var );

Returns true if C<$var> is readonly.

sub foo { readonly($_[0]) }

$readonly = foo($bar); # false
$readonly = foo(0); # true

my $code = set_prototype( $code, $prototype );

Sets the prototype of the function given by the C<$code> reference, or deletes
it if C<$prototype> is C<undef>. Returns the C<$code> reference itself.

set_prototype \&foo, '$$';
my $t = tainted( $var );

Return true if C<$var> is tainted.

$taint = tainted("constant");     # false
$taint = tainted($ENV{PWD});       # true if running under -T

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to use L</isweak> or L</weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use L</isvstring> you will need to use a newer release of perl.

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

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Additionally L</weaken> and L</isweak> which are

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=cut

No license file was found, but licenses were detected in source scan.

---

abstract: 'Common Scalar and List utility subroutines'
author:
  - 'Graham Barr <gbarr@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Scalar-List-Utils
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  perl: '5.006'
resources:
This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

```
perl Makefile.PL
make
make test
make install
```

KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

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merge(MergeableMetadata<? jmd) throws Exception'

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@return

getConfigPropertyConfidential public abstract Boolean getConfigPropertyConfidential(); * config-property-confidential

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1.253 websocket-servlet 9.2.19.v20160908

1.254 libblockdev 2.24-7.el8

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1.273 vertx-core 3.9.4
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 */

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

class Version {

    /**
     * Get the basic version string for the current Xalan release.
     * Version String formatted like
     * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " "
        + getMajorVersionNum() + "." + getReleaseVersionNum() + " ."
        + ((getDevelopmentVersionNum() > 0) ?
            ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *    implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designated maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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 */

/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

Found in path(s):
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 * limitations under the License.
 */

/*
 * $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
 */

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 */

This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
public final class Version {

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r|<B>D</B><B>n</B>\"</CODE>
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + " "+getImplementationLanguage() + " "+getMajorVersionNum() + "." +getReleaseVersionNum() + "." +
    +(getDevelopmentVersionNum() > 0) ?
    ("D" +getDevelopmentVersionNum()) : ("" +getMaintenanceVersionNum()) +
    "}
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
* Optional identifier designates development drop of
  * a specific release. D01 is the first development drop
  * of a new release.
  *
  * Development drops are works in progress towards a
  * completed, final release. A specific development drop
  * may not completely implement all aspects of a new
  * feature, which may take several development drops to
  * complete. At the point of the final drop for the
  * release, the D suffix will be omitted.
  *
  * Each 'D' drops can contain functional enhancements as
  * well as defect fixes. 'D' drops may not be as stable as
  * the final releases.
*/

```java
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    }
    catch (NumberFormatException nfe) {
        return 0;
    }
}
```

Found in path(s):
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 */
Major version number.

Version number. This changes only when there is a
significant, externally apparent enhancement from
the previous release. 'n' represents the n'th
version.

Clients should carefully consider the implications
of new versions as external interfaces and behaviour
may have changed.

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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  jar/org/apache/xpath/compiler/FunctionTable.java
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  jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_html.properties
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package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
  * Used by function calls with no args.
  */
  static public final Vector EmptyArgs = new Vector(0);

  /*
  * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
  */
  
  /*
  * @author Jacek Ambroziak
  * @author Santiago Pericas-Geertsen
  * @author Morten Jorgensen
  * @author G. Todd Miller
  */
* Reference to non-existing variable.
*/
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "*[uri]::*" and "*[uri]::*@". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "*@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;
    if (test == null) {  // "*
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
        return new StepPattern(axis, nodeType, predicates);
    }
    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
        return new StepPattern(axis, nodeType, predicates);
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand *[uri]::* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null &&
                local.equals("*") || local.equals("@*")) {

            }
        }
    }
    return new StepPattern(axis, nodeType, predicates);
}

if (test == null) {  // "*
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    return new StepPattern(axis, nodeType, predicates);
} else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
    return new StepPattern(axis, nodeType, predicates);
} else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
        nodeType = (name.toString().equals("*")) ? -1 :
            _xsltc.registerNamespacePrefix(name);
    } else {
        final String uri = name.getNamespace();
        final String local = name.getLocalPart();
        final QName namespace_uri =
            _parser.getQNameIgnoreDefaultNs("namespace-uri");

        // Expand *[uri]::* to *[namespace-uri() = 'uri'] - same for @*
        if (uri != null &&
            local.equals("*") || local.equals("@*")) {

        }
    }
}
if (predicates == null) {
    predicates = new Vector(2);
}

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

predicates.add(
    new Predicater(
        new EqualityExpr(Operators.EQ,
            new NamespaceUriCall(namespace_uri),
            new LiteralExpr(uri)));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
    NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
    _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}

public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ?
    NodeTest.ATTRIBUTE :
    (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
} else if (test instanceof Integer) {
    return ((Integer)test).intValue();
} else {
QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1
            : _xsltc.registerNamespacePrefix(name);
    }

    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (local.equals("*")) {
            return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                : NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            return NodeTest.ATTRIBUTE;
        }
    }

    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
        : _xsltc.registerElement(name);
}

public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}
/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    } else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    } else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;
precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
  [: RESULT = pattern: :]
  | EXPRESSION Expr:expr
  [: RESULT = expr: :];

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
  [: RESULT = lpp: :]
  | LocationPathPattern:lpp VBAR Pattern:p
     [: RESULT = new AlternativePattern(lpp, p); :];

LocationPathPattern ::= SLASH
  [: RESULT = new AbsolutePathPattern(null); :]
  | SLASH RelativePathPattern:rpp
     [: RESULT = new AbsolutePathPattern(rpp); :]

| IdKeyPattern:ikp
  [: RESULT = ikp: :]
  | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
     [: RESULT = new ParentPattern(ikp, rpp); :]
  | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
     [: RESULT = new AncestorPattern(ikp, rpp); :]
  | DSLASH RelativePathPattern:rpp
     [: RESULT = new AncestorPattern(rpp); :]
  | RelativePathPattern:rpp
IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l); parser.setHasIdCall(true); :}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :}

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :}

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :}

StepPattern ::= NodeTestPattern:nt
{: 
RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| NodeTestPattern:nt Predicates:pp
{: 
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{: 
RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
{: 
RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}
| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
| :
| RESULT = pip; // TODO: report error if axis is attribute
| :

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
| :
| // TODO: report error if axis is attribute
| RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
| :

NodeTestPattern ::= NameTestPattern:nt
| :
| RESULT = nt; :

| NODE
| :
| RESULT = new Integer(NodeTest.ANODE); :

| TEXT
| :
| RESULT = new Integer(NodeTest.TEXT); :

| COMMENT
| :
| RESULT = new Integer(NodeTest.COMMENT); :

| PI
| :
| RESULT = new Integer(NodeTest.PI); :

NameTestPattern ::= STAR
| :
| RESULT = null; :

| QName:qn
| :
| RESULT = qn; :

ChildOrAttributeAxisSpecifier ::= ATSIGN
| :
| RESULT = new Integer(Axis.ATTRIBUTE); :

| CHILD DCOLON
| :
| RESULT = new Integer(Axis.CHILD); :

| ATTRIBUTE DCOLON
| :
| RESULT = new Integer(Axis.ATTRIBUTE); :

Predicates ::= Predicate:p
| :
| Vector temp = new Vector();
| temp.addElement(p);
| RESULT = temp;
Predicate ::= LBRACK Expr:e RBRACK
{:
RESULT = new Predicate(e);
:};

Expr ::= OrExpr:ex
{:
RESULT = ex; :};

OrExpr ::= AndExpr:ae
{:
RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{:
RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{:
RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{:
RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{:
RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{:
RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{:
RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{:
RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae
{:
RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae
{:
RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae
{:
RESULT = new RelationalExpr(Operators.LE, re, ae); :}
RelationalExpr::re GE AdditiveExpr::ae
{ : RESULT = new RelationalExpr(Operators.GE, re, ae); : }

AdditiveExpr ::= MultiplicativeExpr::me
{ : RESULT = me; :

AdditiveExpr::ae PLUS MultiplicativeExpr::me
{ : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : }

AdditiveExpr::ae MINUS MultiplicativeExpr::me
{ : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : }

MultiplicativeExpr ::= UnaryExpr::ue
{ : RESULT = ue; :

MultiplicativeExpr::me MULT UnaryExpr::ue
{ : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : }

MultiplicativeExpr::me DIV UnaryExpr::ue
{ : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : }

MultiplicativeExpr::me MOD UnaryExpr::ue
{ : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : }

UnaryExpr ::= UnionExpr::ue
{ : RESULT = ue; :

MINUS UnaryExpr::ue
{ : RESULT = new UnaryOpExpr(ue); :

UnionExpr ::= PathExpr::pe
{ : RESULT = pe; :

PathExpr::pe VBAR UnionExpr::rest
{ : RESULT = new UnionPathExpr(pe, rest); : }

PathExpr ::= LocationPath::lp
{ : RESULT = lp; :

FilterExpr::fexp
{ : RESULT = fexp; :

FilterExpr::fexp SLASH RelativeLocationPath::rlp
{ : RESULT = new FilterParentPath(fexp, rlp); : }

FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{ :
   //
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
}

LocationPath ::= RelativeLocationPath:rlp
{ : RESULT = rlp; : }
| AbsoluteLocationPath:alp
{ : RESULT = alp; : }
RelativeLocationPath ::= Step:step
{ : RESULT = step; : }
| RelativeLocationPath:rlp SLASH Step:step
{ :
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;       // Remove './' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;        // Remove '/.' from the end
    }
    else {
        RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
    }
}
| AbbreviatedRelativeLocationPath:arlp
{ : RESULT = arlp; : }
AbsoluteLocationPath ::= SLASH
{ : RESULT = new AbsoluteLocationPath(); : }
| SLASH RelativeLocationPath:rlp
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{: 
  final Step right = (Step)step;
  final int axis = right.getAxis();
  final int type = right.getNodeType();
  final Vector predicates = right.getPredicates();

  if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress './child:E' into 'descendant::E' - if possible
    if (predicates == null) {
      right.setAxis(Axis.DESCENDANT);
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        RESULT = right;
      } else {
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
      }
    } else {
      // Expand './step' -> 'descendant-or-self::*/step'
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF,
          DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
      } else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
          DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
      }
    }
  } else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
      DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
  }
}
RESULT = new ParentLocationPath(left, ppl);

else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{
    // Expand '// into '/descendant-or-self::node()/' or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step && parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
}

Step ::= NodeTest:ntest
{
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
    }
}

| NodeTest:ntest Predicates:pp
{:}
if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
}

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else {
    RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest), pp);
}
:

|AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    pp);
:}

|AxisSpecifier:axis NodeTest:ntest
{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);
:}

|AbbreviatedStep:abbrev
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}

|ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}

|ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

|ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

|CHILD
{: RESULT = new Integer(Axis.CHILD); :}

|DESCENDANT
{: RESULT = new Integer(Axis.DESCENDANT); :}

|DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

|FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :}
| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : |

| NAMESPACE
| : RESULT = new Integer(Axis.NAMESPACE); |

| PARENT
| : RESULT = new Integer(Axis.PARENT); : |

| PRECEDING
| : RESULT = new Integer(Axis.PRECEDING); : |

| PRECEDINGSIBLING
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); |

| SELF
| : RESULT = new Integer(Axis.SELF); |

AbbreviatedStep ::= DOT
| : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : |

| DDOT
| : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : |

FilterExpr ::= PrimaryExpr:primary
| : RESULT = primary; : |

| PrimaryExpr:primary Predicates:pp
| : RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
| : RESULT = vr; : |

| LPAREN Expr:ex RPAREN
| : RESULT = ex; |

| Literal:string
| :
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(‘:’);
if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string) : new LiteralExpr(string, namespace);

<table>
<thead>
<tr>
<th>INT:num</th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
</tr>
<tr>
<td>long value = num.longValue();</td>
</tr>
<tr>
<td>if (value &lt; Integer.MIN_VALUE</td>
</tr>
<tr>
<td>RESULT = new RealExpr(value);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>if (num.doubleValue() == -0)</td>
</tr>
<tr>
<td>RESULT = new RealExpr(num.doubleValue());</td>
</tr>
<tr>
<td>else if (num.intValue() == 0)</td>
</tr>
<tr>
<td>RESULT = new IntExpr(num.intValue());</td>
</tr>
<tr>
<td>else if (num.doubleValue() == 0.0)</td>
</tr>
<tr>
<td>RESULT = new RealExpr(num.doubleValue());</td>
</tr>
<tr>
<td>else</td>
</tr>
<tr>
<td>RESULT = new IntExpr(num.intValue());</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>:</td>
</tr>
</tbody>
</table>

| REAL:num |
| :      |
| : RESULT = new RealExpr(num.doubleValue()); |

| FunctionCall:fc |
| : RESULT = fc; |

VariableReference ::= DOLLAR VariableName:varName |
| : |
| // An empty qname prefix for a variable or parameter reference |
| // should map to the null namespace and not the default URI. |
| SyntaxTreeNode node = parser.lookupName(varName); |

if (node != null) {
    if (node instanceof Variable) |
        RESULT = new VariableRef((Variable)node); |
    else |
        if (node instanceof Param) |
            RESULT = new ParameterRef((Param)node); |
        else |
            RESULT = new UnresolvedRef(varName); |
}
if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
;

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{

    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    }
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname);
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

<table>
<thead>
<tr>
<th>FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN</th>
</tr>
</thead>
<tbody>
<tr>
<td>: if (parser.getQNameIgnoreDefaultNs(&quot;concat&quot;).equals(fname))</td>
</tr>
<tr>
<td>RESULT = new ConcatCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;number&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new NumberCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;document&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>parser.setMultiDocument(true);</td>
</tr>
<tr>
<td>RESULT = new DocumentCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;string&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new StringCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;boolean&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new BooleanCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;name&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new NameCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;generate-id&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new GenerateIdCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;not&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new NotCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;format-number&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new FormatNumberCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;unparsed-entity-uri&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new UnparsedEntityUriCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;key&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new KeyCall(fname, argl);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;id&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new KeyCall(fname, argl);</td>
</tr>
<tr>
<td>parser.setHasIdCall(true);</td>
</tr>
<tr>
<td>} else if (parser.getQNameIgnoreDefaultNs(&quot;ceiling&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new CeilingCall(fname, argl);</td>
</tr>
</tbody>
</table>
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}

else {
    RESULT = new FunctionCall(fname, argl);
}

);:

NonemptyArgumentList ::= Argument:arg
{
    Vector temp = new Vector();
    temp.addElement(arg);
}
RESULT = temp;
:

| Argument:arg COMMA NonemptyArgumentList:argl
| { : argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
   { : RESULT = fname; :

VariableName ::= QName:vname
   { : RESULT = vname; :

Argument ::= Expr:ex
   { : RESULT = ex; :

NodeTest ::= NameTest:nt
   { : RESULT = nt; :

| NODE
   { : RESULT = new Integer(NodeTest.ANODE); :

| TEXT
   { : RESULT = new Integer(NodeTest.TEXT); :

| COMMENT
   { : RESULT = new Integer(NodeTest.COMMENT); :

| PIPARAM LPAREN Literal:l RPAREN
   { :
      QName name = parser.getQNameIgnoreDefaultNs("name");
      Expression exp = new EqualityExpr(Operators.EQ,
         new NameCall(name),
         new LiteralExpr(l));
      Vector predicates = new Vector();
      predicates.addElement(new Predicate(exp));
      RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
   :

| PI
   { : RESULT = new Integer(NodeTest.PI); :

NameTest ::= STAR
   { : RESULT = null; }

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| QName:qn
{}: RESULT = qn; :|;

QName ::= QName:qname
{}: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
{}: RESULT = parser.getQNameIgnoreDefaultNs("div"); :

| MOD
{}: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :

| KEY
{}: RESULT = parser.getQNameIgnoreDefaultNs("key"); :

| ANCESTOR
{}: RESULT = parser.getQNameIgnoreDefaultNs("child"); :

| ANCESTORORSELF
{}: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :

| ATTRIBUTE
{}: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :

| CHILD
{}: RESULT = parser.getQNameIgnoreDefaultNs("child"); :

| DESCENDANT
{}: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :

| DESCENDANTORSELF
{}: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :

| FOLLOWING
{}: RESULT = parser.getQNameIgnoreDefaultNs("following"); :

| FOLLOWINGSIBLING
{}: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :

| NAMESPACE
{}: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :

| PARENT
{}: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :

| PRECEDING
{}: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :|
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 */

// is found, then throw a special exception in order to terminate

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 */
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 */

Execute the proprietary document-location() function, which returns
a node set of documents.
@xsl.usage advanced

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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*/

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 */

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;

//**
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*/

Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :(}
if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is '::' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
        yy_buffer[index] == '(') ?
        new Symbol(ss) : new Symbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1:    // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DSLASH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LT:
            case sym.LE:
            case sym.GT:
            case sym.GE:
            return new Symbol(sym.QNAME, yytext());
        }
    return new Symbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOicolon:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
return new Symbol(ss, value);
%
}%
%eofval{
return newSymbol(sym.EOF);
%eofval%
%yylexthrow{
Exception
%yylexthrow}
Letter={BaseChar}|{Ideographic}
BaseChar=[\u0041-\u005A\u0061-\u007A\u0300-\u0345\u0360-\u0361\u0483-\u0486
\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C4\u064B-\u0652\u0670-\u06DC\u06DD-
\u06E0-\u06E4\u06E7-
\u06E8-\u06EA\u06ED\u0901-\u0903\u093C-\u094C\u094D-
\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09E2-
}
Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BFE\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E59-\u0E5A-
\u0ED9-\u0EDF-\u0F20-\u0F29]
Extender=[\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]
NCName=([Letter]|_|[(NCNameStartChar)]((NCNameChar))*
NCNameChar=[Letter]|.|.|.|[(CombiningChar)]|[(Extender)]|[(NCNameStartChar)]|\u00B7|\u0300-\u030F\u036F|\u203F-\u2040|\u0130-\u0136
HighSurrogate=[\uD800-\uDBFF]
LowSurrogate=[\uDC00-\uDFFF]
%-
%* { return disambiguateStar(); }%
%*/ { return newSymbol(sym.SLASH); }%
%*+ { return newSymbol(sym.PLUS); }%
%*- { return newSymbol(sym.MINUS); }%
"div" { return disambiguateOperator(sym.DIV); }%
"mod" { return disambiguateOperator(sym.MOD); }%
"::" { return newSymbol(sym.DCOLON); }%
",." { return newSymbol(sym.COMMA); }%
"@" { return newSymbol(sym.ATSIGN); }%
".." { return newSymbol(sym.DDOT); }%
"\" { return newSymbol(sym.VBAR); }%
"$" { return newSymbol(sym.DOLLAR); }%
"//" { return newSymbol(sym.DSLASH); }%
="/" { return newSymbol(sym.EQ); }%
="/=" { return newSymbol(sym.NE); }%
"<" { return newSymbol(sym.LT); }%
">" { return newSymbol(sym.GT); }%
"<=" { return newSymbol(sym.LE); }%
"="          [ return newSymbol(sym.GE); ]
"id"         [ return disambiguateAxisOrFunction(sym.ID); ]
"key"        [ return disambiguateAxisOrFunction(sym.KEY); ]
"text()"     [ return newSymbol(sym.TEXT); ]
"text"+][\t\n\r\f]+()"  [ return newSymbol(sym.TEXT); ]
"node()"     [ return newSymbol(sym.NODE); ]
"node"+][\t\n\r\f]+()"  [ return newSymbol(sym.NODE); ]
"comment()"  [ return newSymbol(sym.COMMENT); ]
"comment"+][\t\n\r\f]+()"  [ return newSymbol(sym.COMMENT); ]
"processing-instruction" [ return disambiguateAxisOrFunction(sym.PI); ]
"processing-instruction()" [ return newSymbol(sym.PI); ]
"processing-instruction"+][\t\n\r\f]+()"  [ return newSymbol(sym.PI); ]
"or"         [ return disambiguateOperator(sym.OR); ]
"and"        [ return disambiguateOperator(sym.AND); ]
"child"      [ return disambiguateAxisOrFunction(sym.CHILD); ]
"attribute"  [ return disambiguateAxisOrFunction(sym.ATTRIBUTE); ]
"ancestor"   [ return disambiguateAxisOrFunction(sym.ANCESTOR); ]
"ancestor-or-self" [ return disambiguateAxisOrFunction(sym.ANCESTORORSELF); ]
"descendant" [ return disambiguateAxisOrFunction(sym.DESCENDANT); ]
"descendant-or-self" [ return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); ]
"following"  [ return disambiguateAxisOrFunction(sym.FOLLOWING); ]
"following-sibling" [ return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); ]
"namespace"  [ return disambiguateAxisOrFunction(sym.NAMESPACE); ]
"parent"     [ return disambiguateAxisOrFunction(sym.PARENT); ]
"preceding"  [ return disambiguateAxisOrFunction(sym.PRECEDING); ]
"preceding-sibling" [ return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); ]
"self"       [ return disambiguateAxisOrFunction(sym.SELF); ]
"["          [ return newSymbol(sym.LBRACK); ]
"]"          [ return newSymbol(sym.RBRACK); ]
"("          [ return newSymbol(sym.LPAREN); ]
")"          [ return newSymbol(sym.RPAREN); ]
"<PATTERN>"  [ initialize(); return new Symbol(sym.PATTERN); ]
"<EXPRESSION>" [ initialize(); return new Symbol(sym.EXPRESSION); ]
"[^\^]*[^\^]"  [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]
"[^\^]*[^\^]"  [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]
[Digit]+      [ return newSymbol(sym.INT, new Long(yytext())); ]
[Digit]+("[Digit]" )?  [ return newSymbol(sym.REAL, new Double(yytext())); ]
",("[Digit]+    [ return newSymbol(sym.REAL, new Double(yytext())); ]
",[Digit]+     [ return newSymbol(sym.DOT); ]
({NCName}:)?[NCName]  [ return newSymbol(sym.QNAME, yytext()); ]
({NCName}:)?"@"    [ return newSymbol(sym.QNAME, yytext()); ]
({NCName}:)"*"  [ return newSymbol(sym.QNAME, yytext()); ]
\[ \t\n\r\f\]    [ /* ignore white space. */ ]
.            [ /* ignore white space. */ ]

  throw new Exception(yytext()); ]

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 */

package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.

public static final String PRODUCT = "Xalan";

public static final String LANGUAGE = "Java";

public static final int VERSION = @version.VERSION@;

public static final int RELEASE = @version.RELEASE@;

public static final int MAINTENANCE = @version.MINOR@;

public static final int DEVELOPMENT = @version.DEVELOPMENT@;
Development drops are works in progress towards a
completed, final release. A specific development drop
may not completely implement all aspects of a new
feature, which may take several development drops to
complete. At the point of the final drop for the
release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as
the final releases.

```
/*
* Version String like `<CODE>`"<B>Xalan</B> <B>Language</B>
* v.r[.dd| <B>D</B>n]" </CODE>.
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/
```

```
public static final int DEVELOPMENT = 0;
```

```
/**
* Version String like `<CODE>`"<B>Xalan</B> <B>Language</B>
* v.r[.dd| <B>D</B>n]" </CODE>.
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/
```

```
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"." 
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT) 
: (""+MAINTENANCE));
```

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */
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 */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xslt/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xslt/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/LoadDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SerializerMessages_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Pattern.java
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jar/org/apache/xalan/extensions/SecuritySupport.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_it.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtElementAvailable.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java
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* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ProcessorAttributeSet.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/library/sql/sql/ConnectionPoolManager.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstc/compiler/LiteralExpr.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstc/compiler/ApplyImports.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xstc/compiler/ProcessorAttributeSet.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpl/operations/Quo.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NSInfo.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/ElemElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/ConcatCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/res/XSLTErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xalan/res/XSLTErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/ResultNameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/Axis.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/templates/XUnresolvedVariable.java

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.289 seam-transaction 3.1.0.Final

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Client application for querying drivers' configuration information
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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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1.295 nfs-utils 2.3.3-46.el8

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.342 jctools-core 3.0.0
1.342.1 Available under license:

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No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java
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1.343 spring-plugin-core 1.2.0.RELEASE

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 */

/**
 * StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession
 * allows the application to establish an iterative conversation with the engine, where the state of the
 * session is kept across invocations. The reasoning process may be triggered multiple times for the
 * same set of data. After the application finishes using the session, though, it <b>must<b> call the
 * <code>dispose</code>() method in order to free the resources and used memory.
 *
 * Simple example showing a stateful session executing rules for a given collection of java objects.
 */
<pre>
KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
  kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
  assertFalse( kbuilder.hasErrors() );
  if (kbuilder.hasErrors() ) {
    System.out.println( kbuilder.getErrors() );
  }
KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
  kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
  StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
  for( Object fact : facts ) {
    ksession.insert( fact );
  }
  ksession.fireAllRules();
  ksession.dispose();
</pre>

Simple example showing a stateful session executing processes.
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
* KnowledgeBase kbase = kbuilder.newKnowledgeBase();
* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
* ksession.startProcess("com.sample.processid");
* ksession.signalEvent("SomeEvent", null);
* ksession.startProcess("com.sample.processid");
* ksession.dispose();
* </pre>
*
* StatefulKnowledgeSessions support globals.Globals are used to pass information into the engine
* (like data or service callbacks that can be used in your rules and processes), but they should not
* be used to reason over. If you need to reason over your data, make sure you insert
* it as a fact, not a global.</p>
* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid
* as much as possible) mutable globals. Also, it is a good practice to set your globals before
* inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion
* time, and so, if you are using a global to constraint a fact pattern, and the global is not set,
* you may receive a <code>NullPointerException</code>.</p>
* <p>Globals can be resolved in two ways. The StatefulKnowledgeSession supports getGlobals() which
* returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)
* will set the global on an internal Collection. Identifiers in this internal
* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in
* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.
* </p>
*
* <p>Code snippet for setting a global:</p>
* <pre>
* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
* interactions in the rules.
* for( Object fact : facts ) {
*     ksession.insert( fact );
* }
* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
* ksession.dispose();
* </pre>
*
* Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a
* StatefulKnowledgeSession. See CommandExecutor
* for more details.
* </p>
*
* @see org.drools.runtime.Globals
*/
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  jar/org/drools/builder/conf/DefaultPackageNameOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
  jar/org/drools/builder/conf/EvaluatorOption.java
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  jar/org/drools/command/Command.java
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  jar/org/drools/builder/KnowledgeBuilderError.java
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jar/org/drools/KnowledgeBase.java
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jar/org/drools/SystemEventListenerService.java
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jar/org/drools/conf/KnowledgeBaseOption.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/runtime/rule/ConsequenceExceptionHandler.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/task/service/ResponseHandler.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/definition/process/Node.java
* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
jar/org/drools/management/ObjectTypeNodeMonitorMBean.java
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-
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jar/org/drools/event/rule/DebugAgendaEventListener.java
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jar/org/drools/util/ServiceRegistryImpl.java
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1.jar/org/drools/event/rule/AgendaEventListener.java
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1.jar/org/drools/event/rule/AgendaGroupPushedEvent.java
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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1.jar/org/drools/event/process/ProcessEvent.java
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* /opt/cola/permits/1126575452_1611719615.44/0/stilts-conduit-server-core-0-1-26-redhat-1-sources-jar/org/projectodd/stilts/conduit/xa/PseudoXATransaction.java

1.351 json-c 0.13.1-2.el8

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1.352 less 530 1.el8

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* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profile-1-1-1-sources-
  jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profile-1-1-1-sources-
  jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profile-1-1-1-sources-
  jar/ca/jimr/gae/profiler/MiniProfilerServlet.java

1.359 jboss-marshalling 1.4.2.Final-redhat-1
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1.360 jbosstxbridge 4.17.15.Final-redhat-4
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1.361 ironjacamar-common-spi 1.0.15.Final

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That's all there is to it!
This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
-------

```python
>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66
```

Installation
------------

As root::

```
# python setup.py install
```

or just copy ntplib.py inside a directory in your sys.path, e.g.
```
'/usr/lib/python2.5'.
```

Platform: UNKNOWN
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Operating System :: OS Independent
Classifier: Topic :: System :: Networking :: Time Synchronization

Found in path(s):
* /opt/cola/permits/1283432662_1646722207.04/0/python-ntplib-0.3.3-10.el8.src.rpm-cosi-expand-archive-
from distutils.core import setup

long_description = ""
ntplib - Python NTP library
===========================

Description
-----------

This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode,
leap indicator...). Since it's pure Python, and only depends on core modules, it
should work on any platform with a Python implementation.

Example
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>>> import ntplib
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-0.143156766891
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'no warning'
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193.190.230.66

Installation
------------

As root::

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g.
setup(name='ntplib',
    version='0.3.3',
    description='Python NTP library',
    author='Charles-Francois Natali',
    author_email='cf.natali@gmail.com',
    url='http://code.google.com/p/ntplib/',
    py_modules=['ntplib'],
    license='MIT',
    classifiers=[
        'License :: OSI Approved :: MIT License',
        'Programming Language :: Python',
        'Operating System :: OS Independent',
        'Topic :: System :: Networking :: Time Synchronization'
    ],
    long_description=long_description
)

Found in path(s):
* /opt/cola/permits/1283432662_1646722207.04/0/python-ntplib-0.3.3-10.el8.src.rpm-cosi-expand-archive-
bgK04Huu/ntplib-0.3.3.tar.gz-cosi-expand-archive-av4FqZ7q/ntplib-0.3.3/setup.py

No license file was found, but licenses were detected in source scan.

version 0.3.3 - 2015-07-27
--------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
--------------------------
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01
--------------------------
- add a ‘timeout’ parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01
--------------------------
- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
--------------------------
- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
--------------------------
- cleanup
- fix delay computation (thanks to Michael Frère for pointing that out)

version 0.1.6 - 2009-11-01
--------------------------
- cleanup
- when the server doesn't respond within a reasonable interval, let the
  application handle socket.timeout

version 0.1.5 - 2009-07-13
--------------------------
- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04
--------------------------
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
--------------------------
- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17
--------------------------
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
--------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a
  NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request
to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
--------------------------
- initial release
Found in path(s):
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b0K4Huu/ntplib-0.3.3.tar.gz-cosi-expand-archive-av4FqZ7q/ntplib-0.3.3/CHANGELOG
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* /opt/cola/permits/1283432662_1646722207.04/0/python-ntplib-0.3.3-10.el8.src.rpm-cosi-expand-archive-
b0K4Huu/python-ntplib.spec

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1.369 protobuf 1.25.0

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* /opt/cola/permits/1283432713_1646721354.66/0/sil-padauk-fonts-3.003-1.el8.src.rpm-cosi-expand-archive-YzPorWMU/sil-padauk-fonts.spec
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OFL FAQ - Frequently Asked Questions about the SIL Open Font License (OFL)
Version 1.1-update4 - Sept 2014
(See http://scripts.sil.org/OFL for updates)

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1 USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL

1.1 Can I use the fonts for a book or other print publication, to create logos or other graphics or even to manufacture objects based on their outlines?
Yes. You are very welcome to do so. Authors of fonts released under the OFL allow you to use their font software as such for any kind of design work. No additional license or permission is required, unlike with some other licenses. Some examples of these uses are: logos, posters, business cards, stationery, video titling, signage, t-shirts, personalised fabric, 3D-printed/laser-cut shapes, sculptures, rubber stamps, cookie cutters and lead type.

1.1.1 Does that restrict the license or distribution of that artwork?
No. You remain the author and copyright holder of that newly derived graphic or object. You are simply using an open font in the design process. It is only when you redistribute, bundle or modify the font itself that other conditions of the license have to be respected (see below for more details).
1.2 Can the fonts be included with Free/Libre and Open Source Software collections such as GNU/Linux and BSD distributions and repositories?
Yes! Fonts licensed under the OFL can be freely included alongside other software under FLOSS (Free/Libre and Open Source Software) licenses. Since fonts are typically aggregated with, not merged into, existing software, there is little need to be concerned about incompatibility with existing software licenses. You may also repackaging the fonts and the accompanying components in a .rpm or .deb package (or other similar package formats or installers) and include them in distribution CD/DVDs and online repositories. (Also see section 5.9 about rebuilding from source.)

1.3 I want to distribute the fonts with my program. Does this mean my program also has to be Free/Libre and Open Source Software?
No. Only the portions based on the Font Software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling with software under restricted licensing as well.

1.4 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Original Version and a Modified Version of the fonts. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, games and entertainment software, mobile device applications, etc.

1.5 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.6 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential direct income to distribute their fonts under the OFL. Please honour and respect their contribution!

1.7 What about sharing OFL fonts with friends on a CD, DVD or USB stick?
You are very welcome to share open fonts with friends, family and colleagues through removable media. Just remember to include the full font package, including any copyright notices and licensing information as available in OFL.txt. In the case where you sell the font, it has to come bundled with software.

1.8 Can I host the fonts on a web site for others to use?
Yes, as long as you make the full font package available. In most cases it may be best to point users to the main site that distributes the Original Version so they always get the most recent stable and complete version. See also discussion of web fonts in Section 2.

1.9 Can I host the fonts on a server for use over our internal network?
Yes. If the fonts are transferred from the server to the client computer by means that allow them to be used even if the computer is no longer attached to the network, the full package (copyright notices, licensing information, etc.) should be included.

1.10 Does the full OFL license text always need to accompany the font?
The only situation in which an OFL font can be distributed without the text of the OFL (either in a separate file or in
font metadata), is when a font is embedded in a document or bundled within a program. In the case of metadata included within a font, it is legally sufficient to include only a link to the text of the OFL on http://scripts.sil.org/OFL, but we strongly recommend against this. Most modern font formats include metadata fields that will accept the full OFL text, and full inclusion increases the likelihood that users will understand and properly apply the license.

1.11 What do you mean by ‘embedding’? How does that differ from other means of distribution?
By 'embedding' we mean inclusion of the font in a document or file in a way that makes extraction (and redistribution) difficult or clearly discouraged. In many cases the names of embedded fonts might also not be obvious to those reading the document, the font data format might be altered, and only a subset of the font - only the glyphs required for the text - might be included. Any other means of delivering a font to another person is considered 'distribution', and needs to be accompanied by any copyright notices and licensing information available in OFL.txt.

1.12 So can I embed OFL fonts in my document?
Yes, either in full or a subset. The restrictions regarding font modification and redistribution do not apply, as the font is not intended for use outside the document.

1.13 Does embedding alter the license of the document itself?
No. Referencing or embedding an OFL font in any document does not change the license of the document itself. The requirement for fonts to remain under the OFL does not apply to any document created using the fonts and their derivatives. Similarly, creating any kind of graphic using a font under OFL does not make the resulting artwork subject to the OFL.

1.14 If OFL fonts are extracted from a document in which they are embedded (such as a PDF file), what can be done with them? Is this a risk to author(s)?
The few utilities that can extract fonts embedded in a PDF will typically output limited amounts of outlines - not a complete font. To create a working font from this method is much more difficult and time consuming than finding the source of the original OFL font. So there is little chance that an OFL font would be extracted and redistributed inappropriately through this method. Even so, copyright laws address any misrepresentation of authorship. All Font Software released under the OFL and marked as such by the author(s) is intended to remain under this license regardless of the distribution method, and cannot be redistributed under any other license. We strongly discourage any font extraction - we recommend directly using the font sources instead - but if you extract font outlines from a document, please be considerate: respect the work of the author(s) and the licensing model.

1.15 What about distributing fonts with a document? Within a compressed folder structure? Is it distribution, bundling or embedding?
Certain document formats may allow the inclusion of an unmodified font within their file structure which may consist of a compressed folder containing the various resources forming the document (such as pictures and thumbnails). Including fonts within such a structure is understood as being different from embedding but rather similar to bundling (or mere aggregation) which the license explicitly allows. In this case the font is conveyed unchanged whereas embedding a font usually transforms it from the original format. The OFL does not allow anyone to extract the font from such a structure to then redistribute it under another license. The explicit permission to redistribute and embed does not cancel the requirement for the Font Software to remain under the license chosen by its author(s). Even if the font travels inside the document as one of its assets, it should not lose its authorship information and licensing.

1.16 What about ebooks shipping with open fonts?
The requirements differ depending on whether the fonts are linked, embedded or distributed (bundled or aggregated). Some ebook formats use web technologies to do font linking via @font-face, others are designed for font embedding, some use fonts distributed with the document or reading software, and a few rely solely on the fonts already present on the target system. The license requirements depend on the type of inclusion as discussed in 1.15.

1.17 Can Font Software released under the OFL be subject to URL-based access restrictions methods or DRM (Digital Rights Management) mechanisms?
Yes, but these issues are out-of-scope for the OFL. The license itself neither encourages their use nor prohibits them since such mechanisms are not implemented in the components of the Font Software but through external software. Such restrictions are put in place for many different purposes corresponding to various usage scenarios. One common example is to limit potentially dangerous cross-site scripting attacks. However, in the spirit of libre/open fonts and unrestricted writing systems, we strongly encourage open sharing and reuse of OFL fonts, and the establishment of an environment where such restrictions are unnecessary. Note that whether you wish to use such mechanisms or you prefer not to, you must still abide by the rules set forth by the OFL when using fonts released by their authors under this license. Derivative fonts must be licensed under the OFL, even if they are part of a service for which you charge fees and/or for which access to source code is restricted. You may not sell the fonts on their own - they must be part of a larger software package, bundle or subscription plan. For example, even if the OFL font is distributed in a software package or via an online service using a DRM mechanism, the user would still have the right to extract that font, use, study, modify and redistribute it under the OFL.

1.18 I've come across a font released under the OFL. How can I easily get more information about the Original Version? How can I know where it stands compared to the Original Version or other Modified Versions?
Consult the copyright statement(s) in the license for ways to contact the original authors. Consult the FONTLOG (see section 6 for more details and examples) for information on how the font differs from the Original Version, and get in touch with the various contributors via the information in the acknowledgement section. Please consider using the Original Versions of the fonts whenever possible.

1.19 What do you mean in condition 4 of the OFL's permissions and conditions? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?
The intent is that the goodwill and reputation of the author(s) should not be used in a way that makes it sound like the original author(s) endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the author(s) in a listing of software features, or to promote a Modified Version on a web site by saying "designed by ...". However, it would be appropriate to acknowledge the author(s) if your software package has a list of people who deserve thanks. We realize that this can seem to be a grey area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the author(s) it is allowed, but if it primarily benefits other parties, or could reflect poorly on the author(s), then it is not.

1.20 I'm writing a small app for mobile platforms, do I need to include the whole package?
If you bundle a font under the OFL with your mobile app you must comply with the terms of the license. At a minimum you must include the copyright statement, the license notice and the license text. A mention of this information in your About box or Changelog, with a link to where the font package is from, is good practice, and the extra space needed to carry these items is very small. You do not, however, need to include the full contents of the font package - only the fonts you use and the copyright and license that apply to them. For example, if you only use the regular weight in your app, you do not need to include the italic and bold versions.

1.21 What about including OFL fonts by default in my firmware or dedicated operating system?
Many such systems are restricted and turned into appliances so that users cannot study or modify them. Using open fonts to increase quality and language coverage is a great idea, but you need to be aware that if there is a way for
users to extract fonts you cannot legally prevent them from doing that. The fonts themselves, including any changes you make to them, must be distributed under the OFL even if your firmware has a more restrictive license. If you do transform the fonts and change their formats when you include them in your firmware you must respect any names reserved by the font authors via the RFN mechanism and pick your own font name. Alternatively if you directly add a font under the OFL to the font folder of your firmware without modifying or optimizing it you are simply bundling the font like with any other software collection, and do not need to make any further changes.

1.22 Can I make and publish CMS themes or templates that use OFL fonts? Can I include the fonts themselves in the themes or templates? Can I sell the whole package?
Yes, you are very welcome to integrate open fonts into themes and templates for your preferred CMS and make them more widely available. Remember that you can only sell the fonts and your CMS add-on as part of a software bundle. (See 1.4 for details and examples about selling bundles).

1.23 Can OFL fonts be included in services that deliver fonts to the desktop from remote repositories? Even if they contain both OFL and non-OFL fonts?
Yes. Some foundries have set up services to deliver fonts to subscribers directly to desktops from their online repositories; similarly, plugins are available to preview and use fonts directly in your design tool or publishing suite. These services may mix open and restricted fonts in the same channel, however they should make a clear distinction between them to users. These services should also not hinder users (such as through DRM or obfuscation mechanisms) from extracting and using the OFL fonts in other environments, or continuing to use OFL fonts after subscription terms have ended, as those uses are specifically allowed by the OFL.

1.24 Can services that provide or distribute OFL fonts restrict my use of them?
No. The terms of use of such services cannot replace or restrict the terms of the OFL, as that would be the same as distributing the fonts under a different license, which is not allowed. You are still entitled to use, modify and redistribute them as the original authors have intended outside of the sole control of that particular distribution channel. Note, however, that the fonts provided by these services may differ from the Original Versions.

2 USING OFL FONTS FOR WEBPAGES AND ONLINE WEB FONT SERVICES

NOTE: This section often refers to a separate paper on 'Web Fonts & RFNs'. This is available at http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.1 Can I make webpages using these fonts?
Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended. Your three best options are:
- referring directly in your stylesheet to open fonts which may be available on the user's system
- providing links to download the full package of the font - either from your own website or from elsewhere - so users can install it themselves
- using @font-face to distribute the font directly to browsers. This is recommended and explicitly allowed by the licensing model because it is distribution. The font file itself is distributed with other components of the webpage. It is not embedded in the webpage but referenced through a web address which will cause the browser to retrieve and use the corresponding font to render the webpage (see 1.11 and 1.15 for details related to embedding fonts into documents). As you take advantage of the @font-face cross-platform standard, be aware that web fonts are often tuned for a web environment and not intended for installation and use outside a browser. The reasons in favour of using web fonts are to allow design of dynamic text elements instead of static graphics, to make it easier for content to be localized and translated, indexed and searched, and all this with cross-platform open standards without depending on restricted extensions or plugins. You should check the CSS cascade (the order in which fonts are being
called or delivered to your users) when testing.

2.2 Can I make and use WOFF (Web Open Font Format) versions of OFL fonts?
Yes, but you need to be careful. A change in font format normally is considered modification, and Reserved Font Names (RFNs) cannot be used. Because of the design of the WOFF format, however, it is possible to create a WOFF version that is not considered modification, and so would not require a name change. You are allowed to create, use and distribute a WOFF version of an OFL font without changing the font name, but only if:

- the original font data remains unchanged except for WOFF compression, and
- WOFF-specific metadata is either omitted altogether or present and includes, unaltered, the contents of all equivalent metadata in the original font.

If the original font data or metadata is changed, or the WOFF-specific metadata is incomplete, the font must be considered a Modified Version, the OFL restrictions would apply and the name of the font must be changed: any RFNs cannot be used and copyright notices and licensing information must be included and cannot be deleted or modified. You must come up with a unique name - we recommend one corresponding to your domain or your particular web application. Be aware that only the original author(s) can use RFNs. This is to prevent collisions between a derivative tuned to your audience and the original upstream version and so to reduce confusion.

Please note that most WOFF conversion tools and online services do not meet the two requirements listed above, and so their output must be considered a Modified Version. So be very careful and check to be sure that the tool or service you're using is compressing unchanged data and completely and accurately reflecting the original font metadata.

2.3 What about other web font formats such as EOT/EOTLite/CWT/etc.?
In most cases these formats alter the original font data more than WOFF, and do not completely support appropriate metadata, so their use must be considered modification and RFNs may not be used. However, there may be certain formats or usage scenarios that may allow the use of RFNs. See http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.4 Can I make OFL fonts available through web font online services?
Yes, you are welcome to include OFL fonts in online web font services as long as you properly meet all the conditions of the license. The origin and open status of the font should be clear among the other fonts you are hosting. Authorship, copyright notices and license information must be sufficiently visible to your users or subscribers so they know where the font comes from and the rights granted by the author(s). Make sure the font file contains the needed copyright notice(s) and licensing information in its metadata. Please double-check the accuracy of every field to prevent contradictory information. Other font formats, including EOT/EOTLite/CWT and superior alternatives like WOFF, already provide fields for this information. Remember that if you modify the font within your library or convert it to another format for any reason the OFL restrictions apply and you need to change the names accordingly. Please respect the author's wishes as expressed in the OFL and do not misrepresent original designers and their work. Don't lump quality open fonts together with dubious freeware or public domain fonts. Consider how you can best work with the original designers and foundries, support their efforts and generate goodwill that will benefit your service. (See 1.17 for details related to URL-based access restrictions methods or DRM mechanisms).

2.5 Some web font formats and services provide ways of "optimizing" the font for a particular website or web application; is that allowed?
Yes, it is permitted, but remember that these optimized versions are Modified Versions and so must follow OFL requirements like appropriate renaming. Also you need to bear in mind the other important parameters beyond
compression, speed and responsiveness: you need to consider the audience of your particular website or web application, as choosing some optimization parameters may turn out to be less than ideal for them. Subsetting by removing certain glyphs or features may seriously limit functionality of the font in various languages that your users expect. It may also introduce degradation of quality in the rendering or specific bugs on the various target platforms compared to the original font from upstream. In other words, remember that one person's optimized font may be another person's missing feature. Various advanced typographic features (OpenType, Graphite or AAT) are also available through CSS and may provide the desired effects without the need to modify the font.

2.6 Is subsetting a web font considered modification?
Yes. Removing any parts of the font when delivering a web font to a browser, including unused glyphs and smart font code, is considered modification. This is permitted by the OFL but would not normally allow the use of RFNs. Some newer subsetting technologies may be able to subset in a way that allows users to effectively have access to the complete font, including smart font behaviour. See 2.8 and http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.7 Are there any situations in which a modified web font could use RFNs?
Yes. If a web font is optimized only in ways that preserve Functional Equivalence (see 2.8), then it may use RFNs, as it reasonably represents the Original Version and respects the intentions of the author(s) and the main purposes of the RFN mechanism (avoids collisions, protects authors, minimizes support, encourages derivatives). However this is technically very difficult and often impractical, so a much better scenario is for the web font service or provider to sign a separate agreement with the author(s) that allows the use of RFNs for Modified Versions.

2.8 How do you know if an optimization to a web font preserves Functional Equivalence?
Functional Equivalence is described in full in the 'Web fonts and RFNs' paper at http://scripts.sil.org/OFL_web_fonts_and_RFNs, in general, an optimized font is deemed to be Functionally Equivalent (FE) to the Original Version if it:

- Supports the same full character inventory. If a character can be properly displayed using the Original Version, then that same character, encoded correctly on a web page, will display properly.
- Provides the same smart font behavior. Any dynamic shaping behavior that works with the Original Version should work when optimized, unless the browser or environment does not support it. There does not need to be guaranteed support in the client, but there should be no forced degradation of smart font or shaping behavior, such as the removal or obfuscation of OpenType, Graphite or AAT tables.
- Presents text with no obvious degradation in visual quality. The lettershapes should be equally (or more) readable, within limits of the rendering platform.
- Preserves original author, project and license metadata. At a minimum, this should include: Copyright and authorship; The license as stated in the Original Version, whether that is the full text of the OFL or a link to the web version; Any RFN declarations; Information already present in the font or documentation that points back to the Original Version, such as a link to the project or the author's website.

If an optimized font meets these requirements, and so is considered to be FE, then it's very likely that the original author would feel that the optimized font is a good and reasonable equivalent. If it falls short of any of these requirements, the optimized font does not reasonably represent the Original Version, and so should be considered to be a Modified Version. Like other Modified Versions, it would not be allowed to use any RFNs and you simply need to pick your own font name.

2.9 Isn't use of web fonts another form of embedding?
No. Unlike embedded fonts in a PDF, web fonts are not an integrated part of the document itself. They are not specific to a single document and are often applied to thousands of documents around the world. The font data is not
stored alongside the document data and often originates from a different location. The ease by which the web fonts used by a document may be identified and downloaded for desktop use demonstrates that they are philosophically and technically separate from the web pages that specify them. See http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.10 So would it be better to not use RFNs at all if you want your font to be distributed by a web fonts service? No. Although the OFL does not require authors to use RFNs, the RFN mechanism is an important part of the OFL model and completely compatible with web font services. If that web font service modifies the fonts, then the best solution is to sign a separate agreement for the use of any RFNs. It is perfectly valid for an author to not declare any RFNs, but before they do so they need to fully understand the benefits they are giving up, and the overall negative effect of allowing many different versions bearing the same name to be widely distributed. As a result, we don't generally recommend it.

2.11 What should an agreement for the use of RFNs say? Are there any examples? There is no prescribed format for this agreement, as legal systems vary, and no recommended examples. Authors may wish to add specific clauses to further restrict use, require author review of Modified Versions, establish user support mechanisms or provide terms for ending the agreement. Such agreements are usually not public, and apply only to the main parties. However, it would be very beneficial for web font services to clearly state when they have established such agreements, so that the public understands clearly that their service is operating appropriately.

See the separate paper on 'Web Fonts & RFNs' for in-depth discussion of issues related to the use of RFNs for web fonts. This is available at http://scripts.sil.org/OFL_web_fonts_and_RFNs

3 MODIFYING OFL-LICENSED FONTS

3.1 Can I change the fonts? Are there any limitations to what things I can and cannot change? You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you are not allowed to remove the copyright statement(s) from the font, but you could put additional information into it that covers your contribution. See the placeholders in the OFL header template for recommendations on where to add your own statements. (Remember that, when authors have reserved names via the RFN mechanism, you need to change the internal names of the font to your own font name when making your modified version even if it is just a small change.)

3.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine? Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

3.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs or OpenType/Graphite/AAT code, can I sell the enhanced font? Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

3.4 Can I pay someone to enhance the fonts for my use and distribution? Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling
the font, but you will be making a valuable contribution to the community. Please remember how you have benefited from the contributions of others.

3.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use? No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way beyond what the OFL permits and requires. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefited from the contributions of others.

3.6 Do I have to make any derivative fonts (including extended source files, build scripts, documentation, etc.) publicly available? No, but please consider sharing your improvements with others. You may find that you receive in return more than what you gave.

3.7 If a trademark is claimed in the OFL font, does that trademark need to remain in modified fonts? Yes. Any trademark notices must remain in any derivative fonts to respect trademark laws, but you may add any additional trademarks you claim, officially registered or not. For example if an OFL font called "Foo" contains a notice that "Foo is a trademark of Acme", then if you rename the font to "Bar" when creating a Modified Version, the new trademark notice could say "Foo is a trademark of Acme Inc. - Bar is a trademark of Roadrunner Technologies Ltd.". Trademarks work alongside the OFL and are not subject to the terms of the licensing agreement. The OFL does not grant any rights under trademark law. Bear in mind that trademark law varies from country to country and that there are no international trademark conventions as there are for copyright. You may need to significantly invest in registering and defending a trademark for it to remain valid in the countries you are interested in. This may be costly for an individual independent designer.

3.8 If I commit changes to a font (or publish a branch in a DVCS) as part of a public open source software project, do I have to change the internal font names? Only if there are declared RFNs. Making a public commit or publishing a public branch is effectively redistributing your modifications, so any change to the font will require that you do not use the RFNs. Even if there are no RFNs, it may be useful to change the name or add a suffix indicating that a particular version of the font is still in development and not released yet. This will clearly indicate to users and fellow designers that this particular font is not ready for release yet. See section 5 for more details.

4 LICENSING YOUR ORIGINAL FONTS UNDER THE OFL

4.1 Can I use the SIL OFL for my own fonts? Yes! We heartily encourage everyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom along with enough artistic integrity protection for the work of the authors as well as clear rules for other contributors and those who redistribute the fonts. The licensing model is used successfully by various organisations, both for-profit and not-for-profit, to release fonts of varying levels of scope and complexity.

4.2 What do I have to do to apply the OFL to my font? If you want to release your fonts under the OFL, we recommend you do the following:

4.2.1 Put your copyright and Reserved Font Names information at the beginning of the main OFL.txt file in place of...
the dedicated placeholders (marked with the <> characters). Include this file in your release package.

4.2.2 Put your copyright and the OFL text with your chosen Reserved Font Name(s) into your font files (the copyright and license fields). A link to the OFL text on the OFL web site is an acceptable (but not recommended) alternative. Also add this information to any other components (build scripts, glyph databases, documentation, test files, etc). Accurate metadata in your font files is beneficial to you as an increasing number of applications are exposing this information to the user. For example, clickable links can bring users back to your website and let them know about other work you have done or services you provide. Depending on the format of your fonts and sources, you can use template human-readable headers or machine-readable metadata. You should also double-check that there is no conflicting metadata in the font itself contradicting the license, such as the fstype bits in the os2 table or fields in the name table.

4.2.3 Write an initial FONTLOG.txt for your font and include it in the release package (see Section 6 and Appendix A for details including a template).

4.2.4 Include the relevant practical documentation on the license by adding the current OFL-FAQ.txt file in your package.

4.2.5 If you wish you can use the OFL graphics (http://scripts.sil.org/OFL_logo) on your website.

4.3 Will you make my font OFL for me?
We won't do the work for you. We can, however, try to answer your questions, unfortunately we do not have the resources to review and check your font packages for correct use of the OFL. We recommend you turn to designers, foundries or consulting companies with experience in doing open font design to provide this service to you.

4.4 Will you distribute my OFL font for me?
No, although if the font is of sufficient quality and general interest we may include a link to it on our partial list of OFL fonts on the OFL web site. You may wish to consider other open font catalogs or hosting services, such as the Unifont Font Guide (http://unifont.org/fontguide), The League of Movable Type (http://thelanguageofmovabletype.com) or the Open Font Library (http://openfontlibrary.org/), which despite the name has no direct relationship to the OFL or SIL. We do not endorse any particular catalog or hosting service - it is your responsibility to determine if the service is right for you and if it treats authors with fairness.

4.5 Why should I use the OFL for my fonts?
- to meet needs for fonts that can be modified to support lesser-known languages
- to provide a legal and clear way for people to respect your work but still use it (and reduce piracy)
- to involve others in your font project
- to enable your fonts to be expanded with new weights and improved writing system/language support
- to allow more technical font developers to add features to your design (such as OpenType, Graphite or AAT support)
- to renew the life of an old font lying on your hard drive with no business model
- to allow your font to be included in Libre Software operating systems like Ubuntu
- to give your font world status and wide, unrestricted distribution
- to educate students about quality typeface and font design
- to expand your test base and get more useful feedback
- to extend your reach to new markets when users see your metadata and go to your website
- to get your font more easily into one of the web font online services
- to attract attention for your commercial fonts
- to make money through web font services
- to make money by bundling fonts with applications
- to make money adjusting and extending existing open fonts
- to get a better chance that foundations/NGOs/charities/companies who commission fonts will pick you
- to be part of a sharing design and development community
- to give back and contribute to a growing body of font sources

5 CHOOSING RESERVED FONT NAMES

5.1 What are Reserved Font Names?
These are font names, or portions of font names, that the author has chosen to reserve for use only with the Original Version of the font, or for Modified Version(s) created by the original author.

5.2 Why can't I use the Reserved Font Names in my derivative font names? I'd like people to know where the design came from.
The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Names ensure that the only fonts that have the original names are the unmodified Original Versions. This allows designers to maintain artistic integrity while allowing collaboration to happen. It eliminates potential confusion and name conflicts. When choosing a name, be creative and avoid names that reuse almost all the same letters in the same order or sound like the original. It will help everyone if Original Versions and Modified Versions can easily be distinguished from one another and from other derivatives. Any substitution and matching mechanism is outside the scope of the license.

5.3 What do you mean by "primary name as presented to the user"? Are you referring to the font menu name?
Yes, this applies to the font menu name and other mechanisms that specify a font in a document. It would be fine, however, to keep a text reference to the original fonts in the description field, in your modified source file or in documentation provided alongside your derivative as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder(s) allow(s) it through a separate agreement). Users who install derivatives (Modified Versions) on their systems should not see any of the original Reserved Font Names in their font menus, for example. Again, this is to ensure that users are not confused and do not mistake one font for another and so expect features only another derivative or the Original Version can actually offer.

5.4 Am I not allowed to use any part of the Reserved Font Names?
You may not use individual words from the Reserved Font Names, but you would be allowed to use parts of words, as long as you do not use any word from the Reserved Font Names entirely. We do not recommend using parts of words because of potential confusion, but it is allowed. For example, if "Foobar" was a Reserved Font Name, you would be allowed to use "Foo" or "bar", although we would not recommend it. Such an unfortunate choice would confuse the users of your fonts as well as make it harder for other designers to contribute.

5.5 So what should I, as an author, identify as Reserved Font Names?
Original authors are encouraged to name their fonts using clear, distinct names, and only declare the unique parts of the name as Reserved Font Names. For example, the author of a font called "Foobar Sans" would declare "Foobar" as a Reserved Font Name, but not "Sans", as that is a common typographical term, and may be a useful word to use in a derivative font name. Reserved Font Names should also be single words for simplicity and legibility. A font called "Flowing River" should have Reserved Font Names "Flowing" and "River", not "Flowing River". You also
need to be very careful about reserving font names which are already linked to trademarks (whether registered or not) which you do not own.

5.6 Do I, as an author, have to identify any Reserved Font Names?
No. RFNs are optional and not required, but we encourage you to use them. This is primarily to avoid confusion between your work and Modified Versions. As an author you can release a font under the OFL and not declare any Reserved Font Names. There may be situations where you find that using no RFNs and letting your font be changed and modified - including any kind of modification - without having to change the original name is desirable. However you need to be fully aware of the consequences. There will be no direct way for end-users and other designers to distinguish your Original Version from many Modified Versions that may be created. You have to trust whoever is making the changes and the optimizations not to introduce problematic changes. The RFNs you choose for your own creation have value to you as an author because they allow you to maintain artistic integrity and keep some control over the distribution channel to your end-users. For discussion of RFNs and web fonts see section 2.

5.7 Are any names (such as the main font name) reserved by default?
No. That is a change to the license as of version 1.1. If you want any names to be Reserved Font Names, they must be specified after the copyright statement(s).

5.8 Is there any situation in which I can use Reserved Font Names for a Modified Version?
The Copyright Holder(s) can give certain trusted parties the right to use any of the Reserved Font Names through separate written agreements. For example, even if “Foobar” is a RFN, you could write up an agreement to give company ”XYZ“ the right to distribute a modified version with a name that includes ”Foobar“. This allows for freedom without confusion. The existence of such an agreement should be made as clear as possible to downstream users and designers in the distribution package and the relevant documentation. They need to know if they are a party to the agreement or not and what they are practically allowed to do or not even if all the details of the agreement are not public.

5.9 Do font rebuilds require a name change? Do I have to change the name of the font when my packaging workflow includes a full rebuild from source?
Yes, all rebuilds which change the font data and the smart code are Modified Versions and the requirements of the OFL apply: you need to respect what the Author(s) have chosen in terms of Reserved Font Names. However if a package (or installer) is simply a wrapper or a compressed structure around the final font - leaving them intact on the inside - then no name change is required. Please get in touch with the author(s) and copyright holder(s) to inquire about the presence of font sources beyond the final font file(s) and the recommended build path. That build path may very well be non-trivial and hard to reproduce accurately by the maintainer. If a full font build path is made available by the upstream author(s) please be aware that any regressions and changes you may introduce when doing a rebuild for packaging purposes is your own responsibility as a package maintainer since you are effectively creating a separate branch. You should make it very clear to your users that your rebuilt version is not the canonical one from upstream.

5.10 Can I add other Reserved Font Names when making a derivative font?
Yes. List your additional Reserved Font Names after your additional copyright statement, as indicated with example placeholders at the top of the OFL.txt file. Be sure you do not remove any existing RFNs but only add your own. RFN statements should be placed next to the copyright statement of the relevant author as indicated in the OFL.txt template to make them visible to designers wishing to make their separate version.

6 ABOUT THE FONTLOG
6.1 What is this FONTLOG thing exactly?
It has three purposes: 1) to provide basic information on the font to users and other designers and developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge authors and other contributors. Please use it!

6.2 Is the FONTLOG required?
It is not a requirement of the license, but we strongly recommend you have one.

6.3 Am I required to update the FONTLOG when making Modified Versions?
No, but users, designers and other developers might get very frustrated with you if you don't. People need to know how derivative fonts differ from the original, and how to take advantage of the changes, or build on them. There are utilities that can help create and maintain a FONTLOG, such as the FONTLOG support in FontForge.

6.4 What should the FONTLOG look like?
It is typically a separate text file (FONTLOG.txt), but can take other formats. It commonly includes these four sections:

- brief header describing the FONTLOG itself and name of the font family
- Basic Font Information - description of the font family, purpose and breadth
- ChangeLog - chronological listing of changes
- Acknowledgements - list of authors and contributors with contact information

It could also include other sections, such as: where to find documentation, how to make contributions, information on contributing organizations, source code details, and a short design guide. See Appendix A for an example FONTLOG.

7 MAKING CONTRIBUTIONS TO OFL PROJECTS

7.1 Can I contribute work to OFL projects?
In many cases, yes. It is common for OFL fonts to be developed by a team of people who welcome contributions from the wider community. Contact the original authors for specific information on how to participate in their projects.

7.2 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back in response to what you've received. Your contributions and improvements to the fonts and other components could be a tremendous help and would encourage others to contribute as well and 'give back'. You will then benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that clearly when you contribute.

7.3 I've made some very nice improvements to the font. Will you consider adopting them and putting them into future Original Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to
include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly
marked changes - the use of smart source revision control systems like subversion, mercurial, git or bzr is a good
idea. Please follow the recommendations given by the author(s) in terms of preferred source formats and
configuration parameters for sending contributions. If this is not indicated in a FONTLOG or other documentation
of the font, consider asking them directly. Examples of useful contributions are bug fixes, additional glyphs, stylistic
alternates (and the smart font code to access them) or improved hinting. Keep in mind that some kinds of changes
 esp. hinting) may be technically difficult to integrate.

7.4 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on
how to do this. Such contributions would support future development. You can also pay for others to enhance the
fonts and contribute the results back to the original authors for inclusion in the Original Version.

8 ABOUT THE LICENSE ITSELF

8.1 I see that this is version 1.1 of the license. Will there be later changes?
Version 1.1 is the first minor revision of the OFL. We are confident that version 1.1 will meet most needs, but are
open to future improvements. Any revisions would be for future font releases, and previously existing licenses
would remain in effect. No retroactive changes are possible, although the Copyright Holder(s) can re-release the font
under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

8.2 Does this license restrict the rights of the Copyright Holder(s)?
No. The Copyright Holder(s) still retain(s) all the rights to their creation; they are only releasing a portion of it for
use in a specific way. For example, the Copyright Holder(s) may choose to release a 'basic' version of their font
under the OFL, but sell a restricted 'enhanced' version under a different license. They may also choose to release the
same font under both the OFL and some other license. Only the Copyright Holder(s) can do this, and doing so does
not change the terms of the OFL as it applies to that font.

8.3 Is the OFL a contract or a license?
The OFL is a worldwide license based on international copyright agreements and conventions. It is not a contract
and so does not require you to sign it to have legal validity. By using, modifying and redistributing components
under the OFL you indicate that you accept the license.

8.4 I really like the terms of the OFL, but want to change it a little. Am I allowed to take ideas and actual wording
from the OFL and put them into my own custom license for distributing my fonts?
We strongly recommend against creating your very own unique open licensing model. Using a modified or
derivative license will likely cut you off - along with the font(s) under that license - from the community of
designers using the OFL, potentially expose you and your users to legal liabilities, and possibly put your work and
rights at risk. The OFL went through a community and legal review process that took years of effort, and that review
is only applicable to an unmodified OFL. The text of the OFL has been written by SIL (with review and consultation
from the community) and is copyright (c) 2005-2013 SIL International. You may re-use the ideas and wording (in
part, not in whole) in another non-proprietary license provided that you call your license by another unambiguous
name, that you do not use the preamble, that you do not mention SIL and that you clearly present your license as
different from the OFL so as not to cause confusion by being too similar to the original. If you feel the OFL does not
meet your needs for an open license, please contact us.

8.5 Can I translate the license and the FAQ into other languages?
SIL certainly recognises the need for people who are not familiar with English to be able to understand the OFL and its use. Making the license very clear and readable has been a key goal for the OFL, but we know that people understand their own language best.

If you are an experienced translator, you are very welcome to translate the OFL and OFL-FAQ so that designers and users in your language community can understand the license better. But only the original English version of the license has legal value and has been approved by the community. Translations do not count as legal substitutes and should only serve as a way to explain the original license. SIL - as the author and steward of the license for the community at large - does not approve any translation of the OFL as legally valid because even small translation ambiguities could be abused and create problems.

SIL gives permission to publish unofficial translations into other languages provided that they comply with the following guidelines:

- Put the following disclaimer in both English and the target language stating clearly that the translation is unofficial:

"This is an unofficial translation of the SIL Open Font License into <language_name>. It was not published by SIL International, and does not legally state the distribution terms for fonts that use the OFL. A release under the OFL is only valid when using the original English text. However, we recognize that this unofficial translation will help users and designers not familiar with English to better understand and use the OFL. We encourage designers who consider releasing their creation under the OFL to read the OFL-FAQ in their own language if it is available. Please go to http://scripts.sil.org/OFL for the official version of the license and the accompanying OFL-FAQ."

- Keep your unofficial translation current and update it at our request if needed, for example if there is any ambiguity which could lead to confusion.

If you start such a unofficial translation effort of the OFL and OFL-FAQ please let us know.

8.6 Does the OFL have an explicit expiration term?
No, the implicit intent of the OFL is that the permissions granted are perpetual and irrevocable.

9 ABOUT SIL INTERNATIONAL

9.1 Who is SIL International and what do they do?
SIL serves language communities worldwide, building their capacity for sustainable language development, by means of research, translation, training and materials development. SIL makes its services available to all without regard to religious belief, political ideology, gender, race, or ethnic background. SIL’s members and volunteers share a Christian commitment.

9.2 What does this have to do with font licensing?
The ability to read, write, type and publish in one’s own language is one of the most critical needs for millions of people around the world. This requires fonts that are widely available and support lesser-known languages. SIL develops - and encourages others to develop - a complete stack of writing systems implementation components available under open licenses. This open stack includes input methods, smart fonts, smart rendering libraries and smart applications. There has been a need for a common open license that is specifically applicable to fonts and related software (a crucial component of this stack), so SIL developed the SIL Open Font License with the help of the Free/Libre and Open Source Software community.
9.3 How can I contact SIL?
Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (and contact information) is at: http://scripts.sil.org/OFL

APPENDIX A - FONTLOG EXAMPLE

Here is an example of the recommended format for a FONTLOG, although other formats are allowed.

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FONTLOG for the GlobalFontFamily fonts

This file provides detailed information on the GlobalFontFamily Font Software. This information should be distributed along with the GlobalFontFamily fonts and any derivative works.

Basic Font Information

GlobalFontFamily is a Unicode typeface family that supports all languages that use the Latin script and its variants, and could be expanded to support other scripts.

NewWorldFontFamily is based on the GlobalFontFamily and also supports Greek, Hebrew, Cyrillic and Armenian.

More specifically, this release supports the following Unicode ranges...
This release contains...
Documentation can be found at...
To contribute to the project...

ChangeLog

10 December 2010 (Fred Foobar) GlobalFontFamily-devel version 1.4
- fix new build and testing system (bug #123456)

1 August 2008 (Tom Parker) GlobalFontFamily version 1.2.1
- Tweaked the smart font code (Branch merged with trunk version)
- Provided improved build and debugging environment for smart behaviours

7 February 2007 (Pat Johnson) NewWorldFontFamily Version 1.3
- Added Greek and Cyrillic glyphs

7 March 2006 (Fred Foobar) NewWorldFontFamily Version 1.2
- Tweaked contextual behaviours

1 Feb 2005 (Jane Doe) NewWorldFontFamily Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 –> U+0587)
- Released as “NewWorldFontFamily”

1 Jan 2005 (Joe Smith) GlobalFontFamily Version 1.0
- Initial release

Acknowledgements

If you make modifications be sure to add your name (N), email (E), web-address (if you have one) (W) and description (D). This list is in alphabetical order.

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design

N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts
D: Engineer - original smart font code

N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org
D: Designer - original Roman glyphs

Fontstudio.org is an not-for-profit design group whose purpose is...
Foobar.org is a distributed community of developers...
Company.com is a small business who likes to support community designers...
University.edu is a renowned educational institution with a strong design department...

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Found in path(s):
Padauk is a pan Burma font designed to support all Myanmar script based languages. It covers all of the Unicode Myanmar script blocks and works on all OpenType and Graphite based systems.

Features:
* Special support for: ksw, kht, kyu, shn, aio, phk
* Variation Selector support for kht, aio, phk

Issues:
* Does not work in Word 2007

Padauk is released under the SIL Open Font License.
Padauk is a trademark of SIL International.

See the OFL and OFL-FAQ for details of the SIL Open Font License. See the FONTLOG for information on this and previous releases.

For more information please visit the Padauk page on SIL International's website: http://software.sil.org/padauk.

Found in path(s):

This Font Software is licensed under the SIL Open Font License, Version 1.1. however, cannot be released under any other type of license. The Permission is hereby granted, free of charge, to any person obtaining Software, subject to the following conditions:
Name(s) unless explicit written permission is granted by the corresponding distributed under any other license. The requirement for fonts to

Found in path(s):

1.373 fsnotify 1.4.2
1.373.1 Available under license:

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Copyright (c) 2012 fsnotify Authors. All rights reserved.

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1.374 bluez 5.56-2.el8

1.374.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:    mov v0.d[1], v0.d[0]
; CHECK-NEXT:    ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mccpu=zeC12 -verify-machineinstrs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right
; register classes.
define void @autogen_SD4739(i8*) {
    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
    BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246

    CF246:                                            ; preds = %CF246, %BB
    %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248

    CF248:                                            ; preds = %CF248, %CF246
    store i8 %S1163, i8* %0
    br label %CF248
    }

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>  
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
 ; CHECK-LABEL: test_sitofp_fixed_shortish:
 ; CHECK-DAG: scvtf.2d v0, v0
 ; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
 ; CHECK-LABEL: TestSelect:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:   pushq %rbx
 ; CHECK-NEXT: .cfi_def_cfa_offset 16
 ; CHECK-NEXT:   subq $32, %rsp
 ; CHECK-NEXT: .cfi_def_cfa_offset 48
 ; CHECK-NEXT: .cfi_offset %rbx, -16
 ; CHECK-NEXT: movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
 ; CHECK-NEXT: movaps %xmm0, {{[-0-9]+}}(%r{{[rb]}}p) # 16-byte Spill
 ; CHECK-NEXT: callq __gttf2
 ; CHECK-NEXT: movl %eax, %ebx
 ; CHECK-NEXT: movaps (%r%sp), %xmm0 # 16-byte Reload
 ; CHECK-NEXT: movaps {{[-0-9]+}}(%r{{[sb]}}p), %xmm1 # 16-byte Reload
define fp128 @TestFabs(fp128 %a) {
    ; CHECK-LABEL: TestFabs:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   andps {{.*}}(%rip), %xmm0
    ; CHECK-NEXT:   retq
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    ; CHECK-LABEL: TestCopysign:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   andps {{.*}}(%rip), %xmm1
    ; CHECK-NEXT:   andps {{.*}}(%rip), %xmm0
    ; CHECK-NEXT:   orps %xmm1, %xmm0
    ; CHECK-NEXT:   retq
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}
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; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() {"min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() {"min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() {"min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() {"min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = [ "min-legal-vector-width"="512" ]
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: [%[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; Check that for i16 type, the maximum legal offset is 62.

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttopr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?!]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttopr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?!]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttopr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?!]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttopr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttopr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?!]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttopr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttopr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttopr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttopr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttopr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttopr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttopr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttopr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?!]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttopr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?!]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttopr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttopr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?!]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttopr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>, [[ARG1_VAL:.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* [[ARG:.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT:  ret void
}

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:.*]], <8 x i64> [[ARG1_VAL:.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT:  ret void
  
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:.*]])
  ; CHECK-NEXT: bb:

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void %@llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void %callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void %callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  CHECK-LABEL: define {{[^@]+}}%callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
  CHECK-NEXT: bb:
    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
    ret void
}

bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void %avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  CHECK-LABEL: define {{[^@]+}}%avx512_legal256_prefer256_call_avx512_legal512_prefer256
  CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  CHECK-NEXT: bb:
    [[TMP:%.*]] = alloca <8 x i64>, align 32
    [[TMP2:%.*]] = alloca <8 x i64>, align 32
    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    CHECK-NEXT: call void %@llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    CHECK-NEXT: call fastcc void %callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    CHECK-NEXT: ret void
}

bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void %@llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void %callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
CHECK-SAME: (<8 x i64>* [ARG:%.*], <8 x i64>* [ARG1:%.*])
CHECK-NEXT: bb:
CHECK-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [ARG1]
CHECK-NEXT: store <8 x i64> [TMP], <8 x i64>* [ARG]
CHECK-NEXT: ret void;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
CHECK-SAME: (<8 x i64>* [ARG:%.*])
CHECK-NEXT: bb:
CHECK-NEXT: [TMP:%.*] = alloca <8 x i64>, align 32
CHECK-NEXT: [TMP2:%.*] = alloca <8 x i64>, align 32
CHECK-NEXT: [TMP3:%.*] = bitcast <8 x i64>* [TMP] to i8*
CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %TMP3, i8 0, i64 32, i1 false)
CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [TMP2], <8 x i64>* [TMP])
CHECK-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [TMP2], align 32
CHECK-NEXT: store <8 x i64> [TMP4], <8 x i64>* [ARG], align 2
CHECK-NEXT: ret void;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  ; CHECK-LABEL: define ([[^@]+])@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  ; CHECK-LABEL: define ([[^@]+])@avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP2:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  :
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  %tmp2 = load <8 x i64>, <8 x i64>* %arg1
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  ; CHECK-LABEL: define ([[^@]+])@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:.*]]
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define
{|[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:.*]], i32 [[Y_VAL:.*]])
; CHECK-NEXT: [[C:.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]

; %A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32* [[B:.*]]
    ; CHECK-NEXT: [[A:.*]] = alloca i32
    ; CHECK-NEXT: store i32 1, i32* [[A]]
    ; CHECK-NEXT: [[A_VAL:.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT: [[B_VAL:.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT: [[C:.*]] = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT: ret i32 [[C]]
    ;
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (i32 [[X_VAL:.*]], i32 [[Y_VAL:.*]])
    ; CHECK-NEXT: [[C:.*]] = add i32 [[X_VAL]], [[Y_VAL]]
    ; CHECK-NEXT: ret i32 [[C]]
    ;
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (i32* [[B:.*]])
    ; CHECK-NEXT: [[A:.*]] = alloca i32
    ; CHECK-NEXT: store i32 1, i32* [[A]]
    ; CHECK-NEXT: [[A_VAL:.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT: [[B_VAL:.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT: [[C:.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT: ret i32 [[C]]
    ;
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
}
ret i32 %C
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddw
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:   vpaddd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:   vpaddd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: add512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:   vpaddd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vpermil (,%zmm0) %zmm0
  ; CHECK-NEXT:   xori %zmm0, %zmm0
  ; CHECK-NEXT:   shrdi %zmm0, %zmm0
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = add <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-BEGIN: avg_v64i8_512:
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %7
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm1
; CHECK-NEXT: vpmaddwd32 (%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd64 (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %12, %rdx.shuf1

%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx15 = add <32 x i32> %rdx.shuf15

%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx15, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx17 = add <32 x i32> %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx17, <32 x i32> undef, <32 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx19 = add <32 x i32> %rdx.shuf19

%rdx.shuf20 = add <32 x i32> %bin.rdx, %rdx.shuf20
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width=512" { ; CHECK-LABEL: @_Z9test_charPcS_i_512: ; CHECK: # %bb.0: # %entry ; CHECK-NEXT: movl %edx, %eax ; CHECK-NEXT: vp xor %xmm0, %xmm0, %xmm0 ; CHECK-NEXT: xorl %ecx, %ecx ; CHECK-NEXT: vp xor %xmm1, %xmm1, %xmm1 ; CHECK-NEXT: .p2align 4, 0x90 ; CHECK-NEXT: .LBB9_1: # %vector.body ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1 ; CHECK-NEXT: vpmovsxbw (%rdi, %rcx), %zmm2
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf15

%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15

%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
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define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    entry:
    br label %vector.body

    vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi i16 %entry, [ %index.next, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitialize, %6
    %9 = select <16 x i1> %7, %6, %8
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

    middle.block:
    %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %10, %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
    %12 = extractelement <16 x i32> %bin.rdx4, i32 0
    ret i32 %12
}
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:  ; =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{{.*#+}}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{{.*#+}}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
vec.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32>* %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
%l = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %l, <16 x float>* %res
ret void
}

define void @sblto16f64_256(<16 x i16> %a, <16 x double>* %res)
"min-legal-vector-width"="256" {
  ; CHECK-LABEL: sbto16f64_256:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0
  ; CHECK-NEXT: cvtdq2pd %xmm0, %ymm1
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT: cvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT: cvtdq2pd %km0, %ymm2
  ; CHECK-NEXT: cvtdq2pd %xmm2, %ymm3
  ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
  ; CHECK-NEXT: cvtdq2pd %xmm0, %ymm2
  ; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %l = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %l, <16 x double>* %res
  ret void
}

define void @sblto16f64_512(<16 x i16> %a, <16 x double>* %res)
"min-legal-vector-width"="512" {
  ; CHECK-LABEL: sbto16f64_512:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vpmovw2m %zmm0, %k0
  ; CHECK-NEXT: vpmovm2d %km0, %zmm0
  ; CHECK-NEXT: cvtdq2pd %zmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %xmm0
  ; CHECK-NEXT: cvtdq2pd %zmm0, %zmm0
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm0
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %zmm1
  ; CHECK-NEXT: vzerosupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %l = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %l, <16 x double>* %res
  ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: ubto16f32_256:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
 ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm1
 ; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
 ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
 ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: ubto16f32_512:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
 ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
 ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
 ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: ubto16f64_256:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
 ; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm1
 ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
 ; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm2

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
} define void @ubto16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptou <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptou <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptou <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c), "min-legal-vector-width"="256" {  
  ; CHECK-AVX512-LABEL: mul256:  
  ; CHECK-AVX512:   # %bb.0:  
  ; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0  
  ; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm1  
  ; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4  
  ; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm4, %ymm4  
  ; CHECK-AVX512-NEXT:    vpackuswb %ymm4, %ymm1, %ymm1  
  ; CHECK-AVX512-NEXT:    vmovdqa %ymm0, (%rdx)  
  ; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0  
  ; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1  
  
  ; CHECK-VBMI-LABEL: mul256:  
  ; CHECK-VBMI:   # %bb.0:  
  ; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm0  
  ; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm0  
  ; CHECK-VBMI-NEXT:    vmovdqa 32(%rdi), %ymm1  
}
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq

; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 = zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 = zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT: vmovdqa64 {{.*#+}} zmm3 =
55,255,255,255,255,255]
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:
# %bb.0:
; CHECK-VBMI-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
; CHECK-VBMI-NEXT: vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT: vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void

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; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:   vpbldmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:   retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdq (%rdi), %ymm0
; CHECK-NEXT:   vmovdq 32(%rdi), %ymm1
; CHECK-NEXT:   vmovdq 64(%rdi), %ymm2
; CHECK-NEXT:   vmovdq 96(%rdi), %ymm3
; CHECK-NEXT:   vpmovq %ymm0, %xmm0
; CHECK-NEXT:   vpmovq %ymm1, %xmm1
; CHECK-NEXT:   vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:   vpmovq %ymm3, %xmm3
; CHECK-NEXT:   vinserti128 $1, %xmm3, %ymm2, %ymm2
; CHECK-NEXT:   retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdq (%rdi), %ymm0
; CHECK-NEXT:   vmovdq 32(%rdi), %ymm1
; CHECK-NEXT:   vmovdq 64(%rdi), %ymm2
; CHECK-NEXT:   vmovdq 96(%rdi), %ymm3
; CHECK-NEXT:   vpmovqb %ymm3, %xmm3
; CHECK-NEXT:   vpmovqb %ymm2, %xmm2
; CHECK-NEXT:   vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT:   vpmovqb %ymm1, %xmm1
; CHECK-NEXT:   vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i16>, <8 x i16>* %x
%b = trunc <8 x i16> %a to <8 x i8>
ret <8 x i8> %b
}
define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
    ; CHECK: %a = load <8 x i64>, <8 x i64>* %x
    ; CHECK-NEXT: %b = trunc <8 x i64> %a to <8 x i16>
    ret <8 x i16> %b
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
    ; CHECK: %a = load <16 x i64>, <16 x i64>* %x
    ; CHECK-NEXT: %b = lshr <16 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
    ; CHECK-NEXT: %c = trunc <16 x i64> %b to <8 x i32>
    ret <8 x i32> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
    ; CHECK-AVX512: %a = load <16 x i64>, <16 x i64>* %x
    ; CHECK-AVX512-NEXT: %b = lshr <16 x i32> %a, <i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16>
    ; CHECK-AVX512-NEXT: %c = trunc <16 x i32> %b to <8 x i16>
    ret <8 x i16> %c
}

; CHECK-NEST: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: zext_v16i8_v16i64:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 =
    ; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm2 =
    ; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 =
    ; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm3 =
    ; CHECK-NEXT:    vpmovzxbq {{.*#+}} ymm0 =
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
    ; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %a = zext <16 x i8> %x to <16 x i64>
    store <16 x i64> %a, <16 x i64>* %y
    ret void
}

define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sext_v16i8_v16i64:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 =
    ; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm2 =
    ; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 =
    ; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm3 =
    ; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm0 =
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
    ; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %a = sext <16 x i8> %x to <16 x i64>
    store <16 x i64> %a, <16 x i64>* %y
    ret void
}
; CHECK-NEXT:  vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm2
; CHECK-NEXT:  vpshufd {[*+]} %xmm3 = %xmm2[2,3,0,1]
; CHECK-NEXT:  vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT:  vpmovsxwq %xmm0, %ymm0
; CHECK-NEXT:  vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT:  vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" { 
; CHECK-LABEL:  vselect_split_v8i16_setcc:
; CHECK:     # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa32 (%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqw %xmm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 [%k2]
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 [%k1]
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}
define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" { 
; CHECK-LABEL:  vselect_split_v8i32_setcc:
; CHECK:     # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa32 (%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 [%k2]
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}
define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa32 (%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa32 (%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}
define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256"
{
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
store <16 x i8> %f, <16 x i8>* %q

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; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $58, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $7, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $57, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-129, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $6, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $56, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $8, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $54, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $11, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $53, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $10, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $52, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $18, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFEFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $43, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2097153, %rax # imm = 0xFFDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $20, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $42, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4194305, %rax # imm = 0xFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $23, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $41, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8388609, %rax # imm = 0xFF7FFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $22, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $40, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16777217, %rax # imm = 0xFEFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $25, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $39, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33554433, %rax # imm = 0xFDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $24, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $38, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-67108865, %rax # imm = 0xFBFFFFFFF
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; CHECK-NEXT:  kshiftrq $17, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-140737488355329, %rax # imm = 0xffff7fffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $14, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $16, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-281474976710657, %rax # imm = 0xffeeffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $17, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $15, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-562949953421313, %rax # imm = 0xffdfffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $16, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $14, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1125899906842625, %rax # imm = 0xfffFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $19, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $13, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2251799813685249, %rax # imm = 0xff7fffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $18, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $12, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4503599627370497, %rax # imm = 0xfffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $21, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $11, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-90071992547370497, %rax # imm = 0xf
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $20, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $10, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $23, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $9, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $22, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $8, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $25, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $7, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $24, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $6, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $27, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $5, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-576460752303423489, %rax # imm = 0xEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $26, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $4, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0

entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitialize
%shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7,
   i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22,
   i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 32, i32 33, i32 34, i32 35, i32 36,
   i32 37, i32 38, i32 39, i32 40, i32 41, i32 42, i32 43, i32 44, i32 45, i32 46, i32 47, i32 48, i32 49, i32 50,
   i32 51, i32 52, i32 53, i32 54, i32 55, i32 56, i32 57, i32 58, i32 59, i32 60, i32 61, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>* %x, <64 x i1> %shuf)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK: # %bb.0:
; CHECK-NEXT: kmovq (%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
    ; CHECK-NEXT:    vpsubb %xmm1, %xmm2, %xmm2
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm2 =
    ; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm2
    ; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
    ; CHECK-NEXT:    vpsllw $2, %ymm0, %ymm2
    ; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v32i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm2
    ; CHECK-NEXT:    vpsrlw $4, %ymm0, %ymm3
    ; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
    ; CHECK-NEXT:    vpsllw $5, %ymm1, %ymm1
    ; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
    ; CHECK-NEXT:    vpsllw $2, %ymm0, %ymm2
    ; CHECK-NEXT:    vpsrlw $6, %ymm0, %ymm3
    ; CHECK-NEXT:    vpblendvb %ymm1, %ymm1, %ymm1
    ; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm0, %ymm0
}
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatvar_rotate_v32i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpbroadcastb %xmm1, %xmm1
    ; CHECK-NEXT:    vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
    ; CHECK-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-NEXT:    vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
    ; CHECK-NEXT:    vpsubb %xmm1, %xmm4, %xmm1
    ; CHECK-NEXT:    vpmpeqd %xmm4, %xmm4, %xmm4
    ; CHECK-NEXT:    vpsllw %xmm2, %xmm4, %xmm2
    ; CHECK-NEXT:    vpbroadcastb %xmm2, %ymm2
    ; CHECK-NEXT:    vpmovzxbq {{.*#+}} xmm1 =
    ; CHECK-NEXT:    vpsllw %xmm1, %ymm0, %ymm3
    ; CHECK-NEXT:    vpsrlw %ymm1, %ymm0, %ymm5
    ; CHECK-NEXT:    vpand %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT:    vpsrlw %ymm1, %ymm4, %ymm0
    ; CHECK-NEXT:    vpsrlw $8, %ymm0, %ymm0
    ; CHECK-NEXT:    vpbroadcastb %ymm0, %ymm0
    ; CHECK-NEXT:    vpternlogq $236, %ymm5, %ymm2, %ymm0
    ; CHECK-NEXT:    retq
    %splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
    %splat8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %splat
    %shl = shl <32 x i8> %a, %splat
    %ishl = lshr <32 x i8> %a, %splat8
    %or = or <32 x i8> %shl, %ishl
    ret <32 x i8> %or
}
; CHECK-AVX512:     # %bb.0:
; CHECK-AVX512-NEXT:  vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-AVX512-NEXT:  # ymm2 = mem[0,1,0,1]
; CHECK-AVX512-NEXT:  vblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT:  vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpsllv {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpsllw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpsrlw S8, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
| ymm0[8], ymm2[8], ymm0[9], ymm2[9], ymm0[10], ymm2[10], ymm0[11], ymm2[11], ymm0[12], ymm2[12], ymm0[13], ymm2[13], ymm0[14], ymm2[14], ymm0[15], ymm2[15], ymm0[24], ymm2[24], ymm0[25], ymm2[25], ymm0[26], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]
; CHECK-AVX512-NEXT:  vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:  vpaddb %ymm1, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  retq

; CHECK-VBMI-LABEL: constant_rotate_v32i8:
; CHECK-VBMI:     # %bb.0:
; CHECK-VBMI-NEXT:  vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI-NEXT:  vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-VBMI-NEXT:  # ymm2 = mem[0,1,0,1]
; CHECK-VBMI-NEXT:  vblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm3, %ymm1, %ymm1
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

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JianXiong Zhou <zhoujianxiong2@gmail.com>
target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [ ; The two loads based on %struct.0, loading two different data types ; cause LSR to assume type "void" for the memory type. This would then ; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
\[
\text{i32 1, label } \text{sw.bb.i}
\text{i32 2, label } \text{sw.bb3.i}
\]

\[
\text{sw.bb.i: } \quad \text{; preds = } \text{while.body}
\text{unreachable}
\]

\[
\text{sw.bb3.i: } \quad \text{; preds = } \text{while.body}
\text{unreachable}
\]

\[
\text{exit: } \quad \text{; preds = } \text{while.body}
\text{switch i32 undef, label } \text{exit.2 [}
\text{i32 1, label } \text{sw.bb.i17}
\text{i32 2, label } \text{sw.bb3.i20}
\]

\[
\text{sw.bb.i17: } \quad \text{; preds = } \text{exit}
\text{%0 = bitcast %struct.0* %lsr.iv to i32*}
\text{%1 = load i32, i32* %0, align 4}
\text{unreachable}
\]

\[
\text{sw.bb3.i20: } \quad \text{; preds = } \text{exit}
\text{%2 = bitcast %struct.0* %lsr.iv to i8**}
\text{%3 = load i8*, i8** %2, align 4}
\text{unreachable}
\]

\[
\text{exit.2: } \quad \text{; preds = } \text{exit}
\text{%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1}
\text{br label } \text{while.body}
\]

\[
\text{while.end: } \quad \text{; preds = } \text{entry}
\text{ret void}
\]

\[
\text{attributes #0 = } \{ \text{nounwind optsizes } \text{"target-cpu"="hexagonv55" } \}
\]

; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --

; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -

; attributor-max-iterations=4 -S < %s | FileCheck %s --check-

; RUN: opt -attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --

; check-

; RUN: opt -attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --

; check-

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M.IS__CGSCC_OPM
; RUN: opt -aapipeline=basic-aa -passes=attribution-cgscc -attribution-manifest-internal -attribution-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT(CGSCC_OPM,IS__CGSCC_OPM,IS_______NP M.IS__CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocaapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:.*]], <8 x i64>* nocaapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__UNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__UNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:.*]], <8 x i64> [[TMP0:.*]])
; IS__UNIT_NPM-NEXT: bb:
; IS__UNIT_NPM-NEXT: [[ARG1_PRIV:.*]] = alloca <8 x i64>, align 64
; IS__UNIT_NPM-NEXT: [[ARG1_PRIV2:.*]] = alloca <8 x i64>, align 64
; IS__UNIT_NPM-NEXT: [[ARG1_PRIV3:.*]] = bitcast <8 x i64>* [[ARG1_PRIV]] to i8*

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {

; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__UNIT_OPM-SAME: (<8 x i64>* nocaapture writeonly [[ARG:.*]])
; IS__UNIT_OPM-NEXT: bb:
; IS__UNIT_OPM-NEXT: [[TMP:.*]] =alloca <8 x i64>, align 32
; IS__UNIT_OPM-NEXT: [[TMP2:.*]] =alloca <8 x i64>, align 32
; IS__UNIT_OPM-NEXT: [[TMP3:.*]] =bitcast <8 x i64>* [[TMP]] to i8*
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```
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapturenonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
bb:
	%tmp = alloca <8 x i64>, align 32
	%tmp2 = alloca <8 x i64>, align 32
	%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
	%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
; NOT_TUNIT_NPM-NEXT: {

; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture noreference nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

; bb:
	%tmp = load <8 x i64>, <8 x i64>* %arg1

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store %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  
  IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [ARG:%.4])
  IS__TUNIT_OPM-NEXT: bb:
    IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  IS__TUNIT_OPM-NEXT: [[TMP5:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
  IS__TUNIT_OPM-NEXT: ret void
  
  IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [ARG:%.4])
  IS__TUNIT_NPM-NEXT: bb:
    IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nonfree dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP0]])
  IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree dereferenceable(64) [[TMP2]], <8 x i64>* dereferenceable(64) [[TMP0]])
  IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  IS__TUNIT_NPM-NEXT: [[TMP5:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
  IS__TUNIT_NPM-NEXT: ret void
  
  IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [ARG:%.4])
  IS__CGSCC_OPM-NEXT: bb:
    IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:    bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:    ret void

; IS__TUNIT_NPM-LABEL: define

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define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 { 

};

IS__TUNIT_NPM-LABEL: define
{[^[@]+]} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
IS__TUNIT_NPM-NEXT: bb:
IS__TUNIT_NPM-LABEL: define
{[^[@]+]} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
IS__TUNIT_NPM-NEXT: bb:
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void 
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 { 

};

IS__TUNIT_OPM-LABEL: define
{[^[@]+]} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
IS__TUNIT_OPM-NEXT: bb:
IS__TUNIT_OPM-LABEL: define
{[^[@]+]} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
IS__TUNIT_OPM-NEXT: bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void 
}
bb:
	%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {

; IS__TUNIT_OPM-LABEL: define
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

}
: IS__TUNIT_OPM-NEXT: call fastcc void
@ callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]])
: IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__TUNIT_OPM-NEXT: ret void
:
: IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
: IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
: IS__TUNIT_NPM-NEXT: bb:
: IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__TUNIT_NPM-NEXT: call fastcc void
@ callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]])
: IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__TUNIT_NPM-NEXT: ret void
:
: IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
: IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
: IS__CGSCC_OPM-NEXT: bb:
: IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__CGSCC_OPM-NEXT: call fastcc void
@ callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64 dereferenceable(64) [[TMP1]])
: IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__CGSCC_OPM-NEXT: ret void
:
: IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
: IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
: IS__CGSCC_NPM-NEXT: bb:
: IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
```assembly
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP1]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
```
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256((8 x i64)* %arg) #1 {
  ;
  ; IS_TUNIT_OPM-LABEL:  define {([^@]+)} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS_TUNIT_OPM-SAME:  (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS_TUNIT_OPM-NEXT:  bb:
  ; IS_TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS_TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS_TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS_TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS_TUNIT_OPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256((8 x i64)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS_TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS_TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS_TUNIT_OPM-NEXT:    ret void
  ;
  ; IS_TUNIT_NPM-LABEL:  define {([^@]+)} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS_TUNIT_NPM-SAME:  (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS_TUNIT_NPM-NEXT:  bb:
  ; IS_TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS_TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS_TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS_TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS_TUNIT_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256((8 x i64)* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS_TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS_TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS_TUNIT_NPM-NEXT:    ret void
  ;
  ; IS_CGSCC_OPM-LABEL:  define {([^@]+)} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS_CGSCC_OPM-SAME:  (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
  ; IS_CGSCC_OPM-NEXT:  bb:
  ; IS_CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS_CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS_CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS_CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS_CGSCC_OPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256((8 x i64)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS_CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS_CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nointerface nointerface nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
;
; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nointerface nointerface nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nointerface nointerface nonnull writeonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {{[^@]+}} callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nointerface nointerface nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:.*]] = alloca <8 x i64>, align 64
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    bb: %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    bb: %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
This should promote

```c
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias nocapture nolalias 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define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@call_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@srcavx2 Legal512_prefer256_Call_avx2 Legal256_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:

    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@call_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@call_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:

    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@call_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ;
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@call_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
open source used in field network director for virtual machine installation 4.8.1

```
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: %tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
```
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
;

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
  metadata !"fpexcept.strict")
  strictfp
  ret i32 %result
}
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define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX512-LABEL: 'zext512'
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}


define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
};

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
};

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
};

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ret void
};
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define void @trunc256() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc256'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; AVX512VL256-LABEL: 'trunc256'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; AVX512VL512-LABEL: 'trunc256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; SKX256-LABEL: 'trunc256'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
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AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

AVX512VL256-LABEL: ‘zext256_vXi1’

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i64 = zext <32 x i1> undef to <32 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i64 = zext <64 x i1> undef to <64 x i64>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i16 = zext <64 x i1> undef to <64 x i16>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V128i16 = zext <128 x i1> undef to <128 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i64 = zext <32 x i1> undef to <32 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i64 = zext <64 x i1> undef to <64 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i64 = zext <32 x i1> undef to <32 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i64 = zext <64 x i1> undef to <64 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i64 = zext <32 x i1> undef to <32 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i64 = zext <64 x i1> undef to <64 x i64>
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; 

%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'sext256_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX512-NEXT: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
}
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32\text{i16} = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64\text{i16} = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2\text{i8} = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4\text{i8} = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8\text{i8} = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16\text{i8} = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32\text{i8} = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64\text{i8} = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2\text{i64} = trunc <2 x i64> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4\text{i64} = trunc <4 x i64> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8\text{i64} = trunc <8 x i64> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16\text{i64} = trunc <16 x i64> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32\text{i64} = trunc <32 x i64> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64\text{i64} = trunc <64 x i64> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2\text{i16} = trunc <2 x i16> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4\text{i16} = trunc <4 x i16> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8\text{i16} = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16\text{i16} = trunc <16 x i16> undef to <16 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
: SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

: SKX512-LABEL: 'trunc_vXi1'
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
: SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to
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4.8.1

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%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}
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1.396 linux-kernel 4.18.0

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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1.397 libvorbis 1.3.6 2.el8

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1.398 jbossjts-integration 4.17.15.Final-redhat-4

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1.399 libatasmart 0.19 6.el7

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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 */

@throws UnsupportedOperationException always

@deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}</b>.

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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/Shorts.java
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 */

/**
 * Holder for web specializations of methods of [ @code Floats ]. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/ImmutableLongArray.java

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jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
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jar/com/google/common/collection/AbstractBiMap.java
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jar/com/google/common/collection/package-info.java
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jar/com/google/common/collection/HashMultiset.java
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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-0001-sources-jar/com/google/common/collection/Multiset.java
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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/ForwardingQueue.java

* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java

* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/Sets.java

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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/math/BigDecimalMath.java
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**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
* *
* <p>This method assumes that the collection size doesn't change while the method is running.
* *
* <p>TODO(kevinb): support concurrently modified collections?
* @param c the collection for which to return an array of elements
*/

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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/collection/ObjectArrays.java

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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/reflect/TypeVisitor.java
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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-0001-sources-jar/com/google/common/base/Verify.java
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 * /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/base/Preconditions.java
 * /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/eventbus/package-info.java
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 * /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/HashBiMap.java
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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/reflect/Reflection.java
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jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-
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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/collection/IndexedImmutableSet.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/collection/JdkBackedImmutableMap.java

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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java

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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/CollectDoublesMethodsForWeb.java
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* the License.
*/
/**
* Holder for extra methods of {code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java

Found in path(s):
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/cache/Striped64.java

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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/BoundType.java
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/math/package-info.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/base/Enums.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources.jar/com/google/common/hash/AbstractHasher.java
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*/

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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/**
* Holder for web specializations of methods of [ @code Shorts ]. Intended to be empty for regular
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*/

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* the License.
*/
/**
* Outer class that exists solely to let us write [ @code Partially.GwtIncompatible ] instead of plain
* [ @code GwtIncompatible ]. This is more accurate for [ @link Futures#catching ], which is available
* under GWT but with a slightly different signature.
* *
* We can't use [ @code PartiallyGwtIncompatible ] because then the GWT compiler wouldn't recognize
* it as a [ @code GwtIncompatible ] annotation. And for [ @code Futures.catching ], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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  jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/util/concurrent/Invokable.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/math/Stats.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/util/reflect/Invokable.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/partitioner/TypeToInstanceMap.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/util/concurrent/ListenerScheduledFuture.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
  jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-
jar/com/google/common/hash/LongAddable.java
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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/ImmutableMapEntry.java
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* /opt/cola/permits/1253433005_1652847875.9608967/0/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1253433005_1652847875.96089670/guava-30-1-0-redhat-00001-sources-jar/com/google/common/collect/AbstractRangeSet.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications 
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.416 jboss-as-domain-http-interface

7.3.0.Final-redhat-14

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1.417 shiro-crypto-core 1.8.0

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---
abstract: parse text into an array of tokens or array of arrays
author:
- 'Alexandr Ciornii <alexchorny@gmail.com>'
build_requires:
  ExtUtils::MakeMaker: 0
  Scalar::Util: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-ParseWords
no_index:
directory:
- t
- inc
requires:
perl: 5.006
resources:
repository: http://github.com/chorny/Text-ParseWords
version: 3.30

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=head1 NAME

Text::ParseWords - parse text into an array of tokens or array of arrays

=head1 SYNOPSIS

use Text::ParseWords;
@lists = nested_quotewords($delim, $keep, @lines);
@words = quotewords($delim, $keep, @lines);
@words = shellwords(@lines);
@words = parse_line($delim, $keep, $line);
@words = old_shellwords(@lines); # DEPRECATED!

=head1 DESCRIPTION

The &nested_quotewords() and &quotewords() functions accept a delimiter
(which can be a regular expression)
and a list of lines and then breaks those lines up into a list of
words ignoring delimiters that appear inside quotes.  &quotewords()
returns all of the tokens in a single long list, while &nested_quotewords()
returns a list of token lists corresponding to the elements of @lines.
&parse_line() does tokenizing on a single string.  The &*quotewords()
functions simply call &parse_line(), so if you're only splitting
one line you can call &parse_line() directly and save a function
call.

The $keep argument is a boolean flag.  If true, then the tokens are
split on the specified delimiter, but all other characters (including
quotes and backslashes) are kept in the tokens.  If $keep is false then the
&*quotewords() functions remove all quotes and backslashes that are
not themselves backslash-escaped or inside of single quotes (i.e.,
&quotewords() tries to interpret these characters just like the Bourne
shell). NB: these semantics are significantly different from the original version of this module shipped with Perl 5.000 through 5.004. As an additional feature, $keep may be the keyword "delimiters" which causes the functions to preserve the delimiters in each string as tokens in the token lists, in addition to preserving quote and backslash characters.

&shellwords() is written as a special case of &quotewords(), and it does token parsing with whitespace as a delimiter-- similar to most Unix shells.

=head1 EXAMPLES

The sample program:

```perl
use Text::ParseWords;
@words = quotewords("\s+", 0, q{this is a test of quotewords for you});
$i = 0;
foreach (@words) {
    print "$i: <$_>

$i++;
}
```

produces:

```
0: <this>
1: <is>
2: <a test>
3: <of quotewords>
4: <"for>
5: <you>
```

demonstrating:

=over 4

=item 0Z<>
a simple word

=item 1Z<>
multiple spaces are skipped because of our $delim

=item 2Z<>
use of quotes to include a space in a word

=over 4
use of a backslash to include a space in a word

use of a backslash to remove the special meaning of a double-quote

another simple word (note the lack of effect of the backslashed double-quote)

Replacing `quotewords(\s+, 0, q{this is...})` with `shellwords(q{this is...})` is a simpler way to accomplish the same thing.

SEE ALSO

`Text::CSV` - for parsing CSV files

AUTHORS

Maintainer: Alexandr Ciornii <alexchornyATgmail.com>.

Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>, 1994-1997 (Original author unknown). Much of the code for `&parse_line()` (including the primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>.

Examples section another documentation provided by John Heidemann <johnh@ISI.EDU>

Bug reports, patches, and nagging provided by lots of folks-- thanks everybody! Special thanks to Michael Schwern <schwern@envirolink.org> for assuring me that a `&nested_quotewords()` would be useful, and to Jeff Friedl <jfriedl@yahoo-inc.com> for telling me not to worry about error-checking (sort of-- you had to be there).

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1.423 geolite2 20180605-1.el8

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/reflect/TypeVisitor.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/graph/MutableValueGraph.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/ForwardingNavigableMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/TransformedIterator.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collection/FilteredMultimap.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/AppendableWriter.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/net/InternetDomainName.java
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jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/hash/LongAdder.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
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jar/com/google/common/graph/PredecessorsFunction.java
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* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/graph/Network.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/io/InsecureRecursiveDeleteException.java

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* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/html/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/InsecureRecursiveDeleteException.java
jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/common/hash/LongAddable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableSet.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableSet.java
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*/
/**
 * Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
 * version.
 */

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  jar/com/google/common/primitives/DoublesMethodsForWeb.java

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*/
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collect/ParametricNullness.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/MutableClassToInstanceMap.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Iterators.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractListMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingConcurrentMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/BitMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Multimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/SingletonImmutableSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/HashMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingSortedMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/NullsLastOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/SetMultimap.java
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 */
/**
 * Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
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 */

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/CommonPattern.java
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/CollectSpliterators.java
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 */
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.java
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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODo(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collect/ObjectArrays.java
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  jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AtomicLongMap.java
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jar/com/google/common/base/SmallCharMatcher.java
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*/

**
* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
* version.
* /

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jar/com/google/common/primitives/ShortsMethodsForWeb.java
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 */
/**
/**
 * Holder for extra methods of { @code Objects} only in web. Intended to be empty for regular
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 */

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  jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/io/MoreFiles.java
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jar/com/google/common/collect/MultimapBuilder.java
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jar/com/google/common/reflect/Reflection.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collections/StandardTable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collections/Collections2.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/HashBasedTable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Range.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Serialization.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableMultiset.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/CollectPreconditions.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableMap.java
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1.437 httpcore5 5.0

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Otherwise, if the work is a derivative of the Library, you may
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1.459 resteasy-jackson-provider 2.2.3.GA

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The OASIS Web Services Security: SOAP Message Security 1.1 (WS-Security 2004) specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

The security token profiles currently supported are:

<ul>
</ul>
jar/org/opensaml/ws/wssecurity/package.html

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 */
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* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/transport/BaseTransport.java

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*/
/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 * 
 * @param messageContext the current message context
 * 
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 * 
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its ability
 * to provide message confidentiality.
 */

Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/message/encoder/MessageEncoder.java
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*/
/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 * 
 * @return whether the transport represents a confidential connection
 */
/**
 * Sets whether the transport represents a confidential connection.
 * 
 * @param isConfidential whether the transport represents a confidential connection
 */

Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/transport/Transport.java
1.478 JAXB-XJC 2.2.5.REDHAT-7

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1.483 resteasy-jsapi 2.3.7.Final-redhat-2

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```

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  * case '\'
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  jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/EvaluationContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/BeanReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
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* " for expression starting at character " + prefixIndex + "

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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/BeanResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/InlineList.java

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case '[': case '{':

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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/SpelParserConfigurationException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/EvaluationException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpLTE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4
jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/OpMinus.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java

No license file was found, but licenses were detected in source scan.

"foo${expr0}bar${expr1}". The static

Found in path(s):
* * number of expressions all contained in "${...}" markers. For instance
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 */
Found in path(s):
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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case ']':case ')':

Found in path(s):
* case ')
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 */

Found in path(s):
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/AstUtils.java
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  jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/framework/support/ExpressionPointcut.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/config/PointcutEntry.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/TrueClassFilter.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/AdvisorEntry.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/interceptor/DebugInterceptor.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/BeanFactoryRefreshableTargetSource.java
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  jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/MethodMatchers.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/AspectComponentDefinition.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/IntroductionInterceptor.java
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*/opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.511 ironjacamar-deployers-common

1.0.15.Final

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1.512 libvpx 1.7.0-8.el8

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* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/ContextClassResolver.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/ObjectResolver.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/util/FloatFieldPutter.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/util/FloatReadField.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/reflect/SerializableClassRegistry.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
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- jar/org/jboss/marshalling/Unmarshaller.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources.jar/org/jboss/marshalling/MarshallingObjectOutputStream.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources.jar/org/jboss/marshalling/ClassExternalizerFactory.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/ByteOutput.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/byteOutput.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/Version.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/MarshallerObjectInput.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/ChainingObjectResolver.java
- * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/ChainingClassExternalizerFactory.java
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jar/org/jboss/marshalling/ObjectTable.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
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* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/util/IdentityIntSet.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/util/IntMap.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/ExceptionListener.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/ProviderDescriptor.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/BytePipe.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/TraceInformation.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/FieldSetter.java
* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-
jar/org/jboss/marshalling/Pair.java
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* /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1.3.16-ga-sources.jar/org/jboss/marshalling/cloner/ObjectClonerSource.java
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1.524 boost 4.7.2

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1.525 tdb 1.4.3-1.el8

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  jar/org/jboss/marshalling/river/SerializableGapClassDescriptor.java
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jar/org/jboss/marshalling/river/Validator.java
* /opt/cola/permits/1023219915_1654022893.5717702/0/jboss-marshalling-river-1-3-16-ga-sources-
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* /opt/cola/permits/1023219915_1654022893.5717702/0/jboss-marshalling-river-1-3-16-ga-sources-jar/org/jboss/marshalling/river/SerializableClassDescriptor.java
* /opt/cola/permits/1023219915_1654022893.5717702/0/jboss-marshalling-river-1-3-16-ga-sources-jar/org/jboss/marshalling/river/SimpleClassDescriptor.java

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---

abstract: 'Establish an ISA relationship with base classes at compile time'
author:
 - 'Max Maischein <corion@cpan.org>'
built_requires:
ExtUtils::MakeMaker: '0'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: parent
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0.4'
  perl: '5.006'
resources:
  repository: https://github.com/Corion/parent
  version: '0.237'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1009548129_1591379747.05/0/perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/parent-0.237/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
  require Foo;
  require Bar;
  push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within a differently named file:

package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that C<require> would not consider an eligible filename (that is, it does not end in either C<.pm> or C<.pmc>), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 HISTORY

This module was forked from L<base> to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

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Max Maischein C< corion@cpan.org >

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Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

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=cut

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.558 cracklib 2.9.6 15.el8
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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It may happen that this requirement contradicts the license
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-------------------------------------
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
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unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isnt the place of a library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

---

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> > thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
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> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> > Seems like the ideal thing here would be for you and the other distro
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> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
--------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id i91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1HcOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1bb13f80710010908k11dac0afp1f2dd471059fffa4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1bb13f80710010908k11dac0afp1f2dd471059fffa4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> ------- Forwarded message -------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 4892
To: alecm@crypto.dircon.co.uk

Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
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=2Dmike

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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-- Nathan

---------

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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Nalin

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> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvps.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMT id 191Gxptr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMT id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmt (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
            <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
            <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=fixed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ****** Forwarded message ******
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.559 jboss-as-protocol 7.3.0.Final-redhat-14

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DomainClientImpl(InetAddress address, int port) { public DomainClientImpl(InetAddress address, int port,
CallbackHandler handler) { public DomainClientImpl(ModelControllerClient delegate) { public
DomainDeploymentManager getDeploymentManager() {'

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1.560 shiro-spring 1.8.0

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1.561 sanitized-anchor-name 1.0.0
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1.562 alsa-utils 1.2.5-3.el8

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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the Library and of the other library facilities is otherwise
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END OF TERMS AND CONDITIONS

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

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

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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/converters/collections/AbstractCollectionConverter.java
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* com.thoughtworks.xstream.convertersreflection.
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/StaxReader.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/extended/package.html
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/collections/package.html
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* Created on 26. June 2013 by Joerg Schaible
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/core/ClassLoaderReference.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
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jar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java
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  jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/SequenceGenerator.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshallar.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/DomReader.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/ErrorWritingException.java

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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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  jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Build-Jdk: 1.8.0_312
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.19
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.19
Eclipse-SourceBundle: xstream;version=1.4.19
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2022-01-29T16:47:16Z
X-Builder: Maven 3.8.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4

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 */

Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java

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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/io/WriterWrapper.java

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  jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java

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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources.jar/com/thoughtworks/xstream/converters/ErrorWriter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources.jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources.jar/com/thoughtworks/xstream/converters/extended/FontConverter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/AbstractDriver.java

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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/util/ArrayIterator.java

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 * Created on 22. June 2006 by Mauro Talevi
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java

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 * Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider
 */
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 5019

Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java
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jar/com/thoughtworks/xstream/XStream.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/util/Cloneables.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/CompactWriter.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/extended/FileConverter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/core/Caching.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/persistence/XmlSet.java
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jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
tag/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
tag/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
tag/com/thoughtworks/xstream/converters/time/DurationConverter.java
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tag/com/thoughtworks/xstream/mapper/ArrayMapper.java
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tag/com/thoughtworks/xstream/io/xml/WstxDriver.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
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* Created on 23. August 2004 by Joe Walnes
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java
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A SAX [ @link org.xml.sax.XMLReader parser] that acts as an XStream
* [ @link com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a
SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ( [ @link
#parse(java.lang.String)]
* and [ @link #parse(org.xml.sax.InputSource)]) but relies on a proprietary SAX property
* [ @link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.
* <p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* [ @link #setProperty SAX property mechanism]. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of [ @link org.xml.sax.XMLFilter filters] down to the underlying parser
* object.
* <p>
* <p>
* This mechanism shall be used to configure the
* [ @link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
* [ @link #CONFIGURED_XSTREAM_PROPERTY XStream facade].
* <p>
* * @author Laurent Bihanic
*/
/**
* Sets the value of a property.
The property name is any fully-qualified URI. It is possible for an XMLReader to recognize a property name but to be unable to set its value.

XMLReaders are not required to recognize setting any specific property names, though a core set is provided with SAX2.

Some property values may be immutable or mutable only in specific contexts, such as before, during, or after a parse.

This method is also the standard mechanism for setting extended handlers.

Note: This implementation only supports two (proprietary) properties: `#CONFIGURED_XSTREAM_PROPERTY` and `#SOURCE_OBJECT_LIST_PROPERTY`.

@throws SAXNotRecognizedException when the XMLReader does not recognize the property name.

@throws SAXNotSupportedException when the XMLReader recognizes the property name but cannot set the requested value.

@see #getProperty

/**
 * Parses an XML document from a system identifier (URI).
 * This method is a shortcut for the common case of reading a document from a system identifier. It is the exact equivalent of the following:
 * <blockquote>
 *    `parse(new InputSource(systemId));`
 * </blockquote>
 * If the system identifier is a URL, it must be fully resolved by the application before it is passed to the parser.
 * Note: As a custom SAX parser, this class ignores the `systemId` argument of this method and relies on the proprietary SAX property `#SOURCE_OBJECT_LIST_PROPERTY` to define the list of
* objects to serialize.<p>
*
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
  * another exception.
* @see #parse(org.xml.sax.InputSource)
*/

Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractXmlReader.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java
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 * Created on 12. February 2015 by Joerg Schaible, copied from
 * c.t.x.converters.reflection.SerializationMemberInvoker.
 */

Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/util/SerializationMembers.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/security/AbstractSecurityException.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/security/InputManipulationException.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java

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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/AbstractWriter.java

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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java
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 * Created on 24. June 2012 by Joerg Schaible
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Found in path(s):
* Created on 11. February 2017 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/MarshallingContext.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/annotations/XStreamAlias.java
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* Created on 08. January 2016 by Joerg Schaible, factored out from FieldAliasingMapper.
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java
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Found in path(s):
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
jar/com/thoughtworks/xstream/mapper/MapperWrapper.java
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jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java

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jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java
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jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java
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jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java

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jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
 jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
 jar/com/thoughtworks/xstream/io/xml/JDomReader.java

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 jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
 jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java

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 jar/com/thoughtworks/xstream/core/util/TypedNull.java

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  jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/perms/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
  jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/1271842773_1644941673.34/0/xstream-1-4-19-sources-jar
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jar/com/thoughtworks/xstream/core/BaseException.java

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jar/com/thoughtworks/xstream/io/xml/XppReader.java

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  jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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 */
/**
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If so, this content model should not be used
* for any purpose other than checking unique particle attribution
*
* @return a boolean that says whether this content has been compacted for UPA
*/

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* jar/org/apache/xerces/impl/xx/models/XSCMValidator.java

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/**
* DOM Level 3 LS CR - Experimental.
* Create a new <code>LSParser</code>. The newly constructed parser may
* then be configured by means of its <code>DOMConfiguration</code>
* object, and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
*   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
*   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*   <code>LSParser</code> that is created will operate in synchronous
*   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
*   <code>LSParser</code> that is created will operate in asynchronous
*   mode.
* @param schemaType  An absolute URI representing the type of the schema
*   language used during the load of a <code>Document</code> using the
*   newly created <code>LSParser</code>. Note that no lexical checking
*   is done on the absolute URI. In order to create a
*   <code>LSParser</code> for any kind of schema types (i.e. the
*   <code>LSParser</code> will be free to use any schema found), use the value
*   <code>null</code>.
*/
For W3C XML Schema [http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/]:
XML Schema Part 1

applications must use the value
XML 1.0

applications must use the value
<code>http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
are outside the scope of the W3C and therefore should recommend an
absolute URI in order to use this method.

The newly created <code>LSParse</code> object. This
<code>LSParse</code> is either synchronous or asynchronous
depending on the value of the <code>mode</code> argument.

By default, the newly created <code>LSParse</code> does not contain a
<code>DOMErrorHandler</code>, i.e. the value of
the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is <code>null</code>. However, implementations
may provide a default error handler at creation time. In that case,
the initial value of the <code>error-handler"</code> configuration
parameter on the new created <code>LSParse</code> contains a
reference to the default error handler.

@exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
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  jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/YearMonthDayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/DayDV.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
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jar/org/apache/xerces/impl/xx/models/XSDFACM.java

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1.613 bctls-fips 1.0.10
1.613.1 Available under license:
No license file was found, but licenses were detected in source scan.

```java
public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");
```

Found in path(s):
* /opt/cola/permits/1137933172_1614175016.68/0/bctls-fips-1-0-10-sources-2-jar/org/bouncycastle/tls/ProtocolName.java

1.614 websocket-client 9.2.19.v20160908

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*
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* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
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* Hungarian dictionary and who developed and contributed
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*
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/Transformer.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/InvokerProxy.java
*/
jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/Customizer.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/AbstractClassTransformer.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/reflect/FastConstructor.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/MethodVisitorTee.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/ClassVisitorTee.java
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerFactory.java
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/ProcessSwitchCallback.java
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/FieldVisitorTee.java
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/beans/BulkBeanException.java
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/ClassGenerator.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/Block.java

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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/ClassFilterTransformer.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/CollectionUtils.java
* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/MethodWrapper.java
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* /opt/cola/permits/1001048510_1651084462.98/0/cglib-nodep-2-2-sources-jar/net/sf/cglib/core/RejectModifierPredicate.java
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1.619 at-spi2-atk 2.26.2-1.el8
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jar/io/netty/resolver/dns/DnsRecordResolveContext.java
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ar/io/netty/resolver/dns/DnsAddressResolverGroup.java
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ar/io/netty/resolver/dns/DnsResolveContext.java
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  jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.627 libnl3 3.2.29 0ubuntu3

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1.634 libffi 3.1 22.el8

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1.635 flyway-commandline 1.1

1.636 vertx-auth-common 3.9.4

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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/impl/hash/PBKDF2.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/JWTOptions.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/HashingStrategy.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/ChainAuth.java
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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/examples/AuthCommonExamples.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/PRNG.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/package-info.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/HashingAlgorithm.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/User.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/AuthProvider.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/impl/ChainAuthImpl.java

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  jar/io/vertx/ext/auth/AuthOptions.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-
  jar/io/vertx/ext/auth/VertxContextPRNG.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-
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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-
  jar/io/vertx/ext/auth/impl/AuthProviderInternal.java

1.637 mtdev 1.1.5-12.el8
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1.638 idna 13.0.0

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1.640 hazelcast 3.12.3

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1.642 xmlsec-java 1.4.2

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*/
This interface is used to manage a database of named <code>Role</code> objects, which can be used for authentication and authorization purposes.

Every role has a name and a type.

A <code>User</code> object can be configured with credentials (e.g., a password) and properties (e.g., a street address, phone number, etc.).

A <code>Group</code> object represents an aggregation of <code>User</code> and <code>Group</code> objects. In other words, the members of a <code>Group</code> object are roles themselves.

Every User Admin service manages and maintains its own namespace of <code>Role</code> objects, in which each <code>Role</code> object has a unique name.

@version $Revision: 5673 $

Found in path(s):
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* Service for administering configuration data.
* 
* The main purpose of this interface is to store bundle configuration data
* persistently. This information is represented in <code>Configuration</code>
* objects. The actual configuration data is a <code>Dictionary</code> of
* properties inside a <code>Configuration</code> object.
* 
* There are two principally different ways to manage configurations. First
* there is the concept of a Managed Service, where configuration data is
* uniquely associated with an object registered with the service registry.
* 
* Next, there is the concept of a factory where the Configuration Admin service
* will maintain 0 or more <code>Configuration</code> objects for a Managed
* Service Factory that is registered with the Framework.
* 
* The first concept is intended for configuration data about "things/services"
* whose existence is defined externally, e.g. a specific printer. Factories are
* intended for "things/services" that can be created any number of times, e.g.
* a configuration for a DHCP server for different networks.
* 
* Bundles that require configuration should register a Managed Service or a
* Managed Service Factory in the service registry. A registration property
* named <code>service.pid</code> (persistent identifier or PID) must be used to
* identify this Managed Service or Managed Service Factory to the Configuration
* Admin service.
* 
* When the ConfigurationAdmin detects the registration of a Managed Service, it
* checks its persistent storage for a configuration object whose
* <code>service.pid</code> property matches the PID service property (  
* <code>service.pid</code>) of the Managed Service. If found, it calls
* { @link ManagedService#updated } method with the new properties. The
* implementation of a Configuration Admin service must run these call-backs
asynchronously to allow proper synchronization.
*
*<p>
* When the Configuration Admin service detects a Managed Service Factory
* registration, it checks its storage for configuration objects whose
* <code>service.factoryPid</code> property matches the PID service property of
* the Managed Service Factory. For each such <code>Configuration</code>
* objects, it calls the <code>ManagedServiceFactory.updated</code> method
* asynchronously with the new properties. The calls to the <code>updated</code>
* method of a <code>ManagedServiceFactory</code> must be executed sequentially
* and not overlap in time.
*
*<p>
* In general, bundles having permission to use the Configuration Admin service
* can only access and modify their own configuration information. Accessing or
* modifying the configuration of another bundle requires
* <code>ConfigurationPermission[*,CONFIGURE]</code>.
*
*<p>
* <code>Configuration</code> objects can be <i>bound</i> to a specified bundle
* location. In this case, if a matching Managed Service or Managed Service
* Factory is registered by a bundle with a different location, then the
* Configuration Admin service must not do the normal callback, and it should
* log an error. In the case where a <code>Configuration</code> object is not
* bound, its location field is <code>null</code>, the Configuration Admin
* service will bind it to the location of the bundle that registers the first
* Managed Service or Managed Service Factory that has a corresponding PID
* property. When a <code>Configuration</code> object is bound to a bundle
* location in this manner, the Configuration Admin service must detect if the
* bundle corresponding to the location is uninstalled. If this occurs, the
* <code>Configuration</code> object is unbound, that is its location field is
* set back to <code>null</code>.
*
*<p>
* The method descriptions of this class refer to a concept of "the calling
* bundle". This is a loose way of referring to the bundle which obtained the
* Configuration Admin service from the service registry. Implementations of
* <code>ConfigurationAdmin</code> must use a
* [@link org.osgi.framework.ServiceFactory] to support this concept.
*
* @version $Revision: 8483 $
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteServiceAdmin.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/ImportRegistration.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteConstants.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/EndpointListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteServiceAdminListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/ExportReference.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteServiceAdminEvent.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/ImportReference.java

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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ManagedService.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/User.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Authorization.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ConfigurationPlugin.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ConfigurationException.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/Configuration.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/metatype/ObjectClassDefinition.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/UserAdminEvent.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Group.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/UserAdminListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Role.java

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jar/org/osgi/service/log/LogListener.java
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jar/org/osgi/service/log/LogReaderService.java
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jar/org/osgi/service/http/HttpContext.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/CollectionMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/MapMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/BlueprintContainer.java
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/metatype/MetaTypeProvider.java

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*/
confidentiality) if (confidentiality == null) throw new IllegalArgumentException("Null confidentiality"); if
(CONFIDENTIALITY_NONE.equalsIgnoreCase(confidentiality)) this.confidentiality =
CONFIDENTIALITY_NONE; else if (CONFIDENTIALITY_SUPPORTED.equalsIgnoreCase(confidentiality))
this.confidentiality = CONFIDENTIALITY_SUPPORTED; else if
(CONFIDENTIALITY_REQUIRED.equalsIgnoreCase(confidentiality)) this.confidentiality =
CONFIDENTIALITY_REQUIRED; throw new IllegalArgumentException("Unknown transport confidentiality: " +
confidentiality);

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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/XMLErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NonLazyElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanAttributeList.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/BackedList.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/STAXEventWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBSupport.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Mode.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/NullAction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Namesp...
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMNamespace.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataDocumentFactory.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/OutputFormat.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/NamedTypeResolver.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleManager.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleSet.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Branch.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXHelper.java

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}

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return isDefault;
}
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 */
package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}

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 */
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import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */
public class Permission implements Serializable {
    private static final long serialVersionUID = 8988574955042726083L;
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }
}
public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

/**
 * Gets the permission description
 * @return the description
 */
public String getDescription() {
    return description;
}

/**
 * Sets the permission description
 * @param description
 */
public void setDescription(String description) {
    this.description = description;
}

/**
 * Get the permission value such as "read_calendar"
 * @return the value
 */
public String getPermission() {
    return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}
public boolean isDefault() {
    return isDefault;
}

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pycparser -- A C parser in Python

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1.665 jboss-transaction-api 1.0.1.Final-redhat-2

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1.666 lz4 1.8.3-3.el8_4

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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/XhrTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/EventSourceTransport.java
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jar/io/vertx/ext/web/handler/FaviconHandler.java
*/opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/DigestAuthHandlerImpl.java
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*/opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/LoggerHandler.java
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jar/io/vertx/ext/web/handler/impl/TimeoutHandlerImpl.java
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jar/io/vertx/ext/web/handler/RouterImpl.java
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1.684 gnome-initial-setup 3.28.0-9.el8

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<interface>
  <!-- interface-requires gtk+ 3.0 -->
  <template class="GisEulaPage" parent="GisPage">
    <property name="needs-accept">True</property>
    <child>
      <object class="GtkBox" id="box">
        <property name="visible">True</property>
        <property name="orientation">vertical</property>
        <property name="can_focus">False</property>
        <property name="halign">fill</property>
        <property name="margin_left">80</property>
        <property name="margin_right">80</property>
        <child>
          <object class="GtkLabel" id="title">
            <property name="visible">True</property>
            <property name="can_focus">False</property>
            <property name="halign">center</property>
            <property name="valign">start</property>
            <property name="margin_bottom">18</property>
            <property name="label" translatable="yes">License Agreements</property>
          </object>
        </child>
        <object class="GtkLabel" id="title">
          <property name="visible">True</property>
          <property name="can_focus">False</property>
          <property name="halign">center</property>
          <property name="valign">start</property>
          <property name="margin_bottom">18</property>
          <property name="label" translatable="yes">License Agreements</property>
        </object>
      </object>
    </child>
  </template>
</interface>
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Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.688 xml-commons-resolver 1.2

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1.695 libvmtools 11.2.5-2.el8

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.696 stilts-stomp-server-spi 0.1.26.redhat-3

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* /opt/cola/permits/1126574282_1611704730.67/0/stilts-stomp-server-spi-0-1-26-redhat-3-sources-jar/META-INF/maven/org.projectodd.stilts/stilts-stomp-server-spi/effective-pom.xml
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* /opt/cola/permits/1258016916_1643022664.81/0/jline-remote-ssh-3-15-0-sources-
  jar/org/jline/builtins/ssh/ShellCommand.java
* /opt/cola/permits/1258016916_1643022664.81/0/jline-remote-ssh-3-15-0-sources-
  jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1258016916_1643022664.81/0/jline-remote-ssh-3-15-0-sources-
  jar/org/jline/builtins/ssh/ShellFactoryImpl.java

---

1.698 perl-constant 1.33-396.el8

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  archive-m15loNwe/perl-constant.spec

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---

abstract: 'Perl pragma to declare constants'
author:
  - 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'
built_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
NAME
constant - Perl pragma to declare constants

SYNOPSIS
use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "\n" if DEBUG;

use constant {
    SEC => 0,
    MIN => 1,
    HOUR => 2,
    MDAY => 3,
    MON => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);;

print "Today is ", (WEEKDAYS)[(localtime)[WDAY]], "\n";

DESCRIPTION
This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown
above, each machine your script runs upon can have as many digits
of accuracy as it can use. Also, your program will be easier to
read, more likely to be maintained (and maintained correctly), and
far less likely to send a space probe to the wrong planet because
nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its
value at compile time, and may then optimize the expression further. In particular, any code in an \texttt{if (CONSTANT)} block will be optimized away if the constant is false.

=head1 NOTES

As with all \texttt{use} directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like \texttt{if ($foo) \{ use constant ... \}}).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

\begin{verbatim}
print "Pi equals PI\n"; # WRONG: does not expand "PI"
print "Pi equals ".PI."\n"; # right
\end{verbatim}

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

\begin{verbatim}
use constant ARRAY => [ 1,2,3,4 ];
print ARRAY->[1];
ARRAY->[1] = " be changed";
print ARRAY->[1];
\end{verbatim}

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in \texttt{Some::Package::CONSTANT}. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as \texttt{Some::Package->CONSTANT} or as \texttt{$obj->CONSTANT} where \texttt{C<$obj>} is an instance of \texttt{C<Some::Package>>}. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant
with no values evaluates to \texttt{C<undef>} in scalar context. Note that constants with more than one value do \texttt{I<not>} return their last value in scalar context as one might expect. They currently return the number of values, but \texttt{B<this may change in the future>}. Do not use constants with multiple values in scalar context.

\textbf{B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:}

\begin{verbatim}
use constant TIMESTAMP => localtime;        \# WRONG!
use constant TIMESTAMP => scalar localtime; \# right
\end{verbatim}

The first line above defines \texttt{C<TIMESTAMP>} as a 9-element list, as returned by \texttt{C<localtime()>} in list context. To set it to the string returned by \texttt{C<localtime()>} in scalar context, an explicit \texttt{C<scalar>} keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

\begin{verbatim}
my @workdays = WEEKDAYS[1 .. 5];        \# WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];     \# right
\end{verbatim}

=header2 Defining multiple constants at once

Instead of writing multiple \texttt{C<use constant>} statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

\begin{verbatim}
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!", \# Error!
};
\end{verbatim}

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until \texttt{I<after>} the \texttt{C<use>} statement is finished.

\begin{verbatim}
use constant {
    BITMASK => 0xAFBAEBA8,
\end{verbatim}
Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

```perl
use constant E2BIG => ($! = 7);
pdnt E2BIG, "\n";  # something like "Arg list too long"
pdnt 0+E2BIG, "\n";  # "7"
```

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/Constant Functions> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

```perl
sub declared ($) {
    use constant 1.01;  # don't omit this!
    my $name = shift;
    $name =~ s/^::/main::/;
    my $pkg = caller;
    my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
    $constant::declared{$full_name};
}
```

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.
A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.

You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<$hash{CONSTANT()}> or C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<< => >> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni E<lt>F<sebastien@aperghis.net>E<gt>. 
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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

Alternatively, to install with Module::Build, you can use the following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

SUPPORT AND DOCUMENTATION
After installing, you can find documentation for this module with the perldoc command.

perldoc constant

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

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1.699 inﬁnispan-core 5.2.1.Final
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If such an object file uses only numerical parameters, data
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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/FromJson.java
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1.725 vertx-hazelcast 3.9.4

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1.726 libplist 2.0.0-10.el8

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.734 jsr181-api 1.0-MR1-redhat-6

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/**
 * An initialization parameter
 *
 * @deprecated As of JSR-181 2.0 with no replacement.
 *
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 */

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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/soap/InitParam.java

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/**
 * Customizes a method that is exposed as a Web Service operation.
 * The associated method must be public and its parameters return value,
 * and exceptions must follow the rules defined in JAX-RPC 1.1, section 5.
 *
 * The method is not required to throw java.rmi.RemoteException.
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 * Customizes the mapping of the return value to a WSDL part and XML element.
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jar/javax/jws/WebResult.java
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/**
 * Indicates that the given @WebMethod has only an input message and no output. Typically, a oneway method
 * returns the thread of control to the calling application prior to executing the actual business method. A 181 processor
 * should report an error if an operation marked @Oneway has a return value or Holder parameters, or declares any
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/**
 * Associates the Web Service with an externally defined handler chain. This annotation is typically used in
 * scenarios where embedding the handler configuration directly in the Java source is not appropriate; for example, where the
 * handler configuration needs to be shared across multiple Web Services, or where the handler chain consists of
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/**
 * A single SOAP message handler
 * 
 * @deprecated As of JSR-181 2.0 with no replacement.
 * 
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/**
 * Specifies the mapping of the Web Service onto the SOAP message protocol.
 * 
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 * 
 */

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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/soap/SOAPBinding.java

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/**
 * Customizes the mapping of an individual parameter to a Web Service message part and XML element.
 * 
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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/WebParam.java

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/**
 * Specifies a list of SOAP protocol handlers that run before and after business methods on the Web Service. These
 * handlers are called in response to SOAP messages targeting the service.
 * <p>
 * The @SOAPMessageHandlers annotation is an array of SOAPMessageHandler types. The handlers are run in the
 * order in which they appear in the annotation, starting with the first handler in the array.
 * 
 * @deprecated As of JSR-181 2.0 with no replacement.
 * 
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/**
 * Marks a Java class as implementing a Web Service, or a Java interface as defining a Web Service interface.
 *
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.736 webbeans-core 1.0.0.PREVIEW1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8
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-- vile: txmode file-encoding=utf-8

1.749 commons-http-client 3.1

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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This package was put together by Vaidhyanathan G Mayilrangam <vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz.
Current versions of the ncurses sources are found at ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>, Michael Alan Dorman <mdorman@debian.org>, Richard Braaikman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.
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1.776 classmate 1.5.1

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Other developers who have contributed code are:

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* DNS resolver (dirmngr/dns.c)
dns.c - Recursive, Reentrant DNS Resolver.

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1.782 weld-probe-core 2.4.8.Final

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* WHENCE *
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--------------------------------------------------------------------------

Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd
Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

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Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

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Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

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Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

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Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

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Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

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Found in hex form in kernel source.

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Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

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Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

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Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

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Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

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Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

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keyspan.c driver which includes this firmware, in whole or in
part, requires the inclusion of this statement.”

-------------------------------------------------------------------------

Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

-------------------------------------------------------------------------

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:
/*
* This firmware is for the Emagic EMI 2|6 Audio Interface
* 
* The firmware contained herein is Copyright (c) 1999-2002 Emagic
* as an unpublished work. This notice does not imply unrestricted
* or public access to this firmware which is a trade secret of Emagic,
* and which may not be reproduced, used, sold or transferred to
* any third party without Emagic's written consent. All Rights Reserved.
* 
* Permission is hereby granted for the distribution of this firmware
* image as part of a Linux or other Open Source operating system kernel
* in text or binary form as required.
* 
* This firmware may not be modified and may only be used with the
* Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
* any driver which includes this firmware, in whole or in part,
* requires the inclusion of this statement.
*/

****************************************************************************

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

*****************************************************************************

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort
File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

--------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.


--------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

--------------------------------------------------------------

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
Port 1 LED flashes when the vend_ax program is running
Port 2 LED flashes when any SETUP command arrives
Port 3 LED flashes when any valid VENDOR request occurs
Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

--------------------------------------------------------------------------

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

* Copyright (C) 1999 BayCom GmbH
* Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that redistributions of source
  code retain the above copyright notice and this comment without
  modification.

--------------------------------------------------------------------------

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw
Licence: Unknown

Found in hex form in kernel source.

-----------------------------------------------

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:
//***************************************************************
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06
//* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//***************************************************************

Found in hex form in kernel source.

-----------------------------------------------

Driver: io_ti - USB Inside Out Edgeport Serial Driver (TI Devices)

File: edgeport/down3.bin

Licence:
//***************************************************************
//* Edgeport Binary Image (for TI based products)
//* Generated by TIBin2C v2.00 (watchport)
//* Copyright (C) 2001 Inside Out Networks, All rights reserved.
//***************************************************************

Found in hex form in kernel source.

-----------------------------------------------

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl
Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
/*
 * Copyright (c) 1994 Creative Technology Ltd.
 * Microcode files for SB16 Advanced Signal Processor
 */

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support
File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap-fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

--------------------------------------------------------------

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

--------------------------------------------------------------

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

--------------------------------------------------------------

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

--------------------------------------------------------------
Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys

Licence:
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This firmware may not be modified.

Found in hex form in kernel source.

---------------------------------------------------------------------

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

Licence:
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This firmware may not be modified.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Found in hex form in kernel source.

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

Licence:
*Copyright (c) 2007-2009 NetLogic Microsystems, Inc.
*
*Permission is hereby granted for the distribution of this firmware
*data in hexadecimal or equivalent format, provided this copyright
*notice is accompanying it.

Found in hex form in kernel source.

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.25.6.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.25.6.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.25.6.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.25.6.0.bin
File: cxgb4/t6fw-1.25.6.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.25.6.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at http://alteon.shareable.org/

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

Licence:
* Firmware is:
  * Derived from proprietary unpublished source code,
  * Copyright (C) 2000-2013 Broadcom Corporation.
  *
Permission is hereby granted for the distribution of this firmware
*data in hexadecimal or equivalent format, provided this copyright
*notice is accompanying it.

Found in hex form in kernel source.

-------------------------------------------------------------------------

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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THERE IS NO WARRANTY FOR THE PROGRAM, INCLUDING BUT NOT LIMITED TO THE
IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE
(TO THE EXTENT PERMITTED BY APPLICABLE LAW). USE OF THE PROGRAM IS AT YOUR
OWN RISK. IN NO EVENT WILL ADAPTEC OR ITS LICENSORS BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM.

-------------------------------------------------------------------------

Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from http://linuxwimax.org/Download

-------------------------------------------------------------------------

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

-------------------------------------------------------------------------

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

-------------------------------------------------------------------------

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw  
Version: 5.2.8.16  
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw  
Version: 7.4.0.9

Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell's "Extranet" with permission. 8366 images contributed directly by Marvell.

--------------------------------------------------------------------------------------------------------------------------

Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin  
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin  
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin  
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin  
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin  
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin  
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin  
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin  
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin  
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin  
Version: W14.68.36.p138

File: mrvl/pceuart8997_combo_v4.bin  
Version: W16.68.1.p179
File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.
Originates from https://github.com/NXP/mwifiex-firmware.git

-------------------------------------------------------------------------

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1
File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
<table>
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</tr>
</thead>
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<tr>
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<td>Version: 16.242414.0</td>
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<tr>
<td>File: iwlwifi-7260-17.ucode</td>
<td>Version: 17.bfb58538.0</td>
</tr>
<tr>
<td>File: iwlwifi-3160-7.ucode</td>
<td>Version: 22.1.7.0</td>
</tr>
<tr>
<td>File: iwlwifi-3160-9.ucode</td>
<td>Version: 25.228.9.0</td>
</tr>
<tr>
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<td>Version: 23.15.10.0</td>
</tr>
<tr>
<td>File: iwlwifi-3160-12.ucode</td>
<td>Version: 25.17.12.0</td>
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<td>Version: 17.bfb58538.0</td>
</tr>
<tr>
<td>File: iwlwifi-7265-9.ucode</td>
<td>Version: 25.228.9.0</td>
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<tr>
<td>File: iwlwifi-7265-10.ucode</td>
<td>Version: 23.15.10.0</td>
</tr>
</tbody>
</table>
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version: 16.242414.0

File: iwlwifi-7265-17.ucode
Version: 17.bfb58538.0

Link: iwlwifi-7265D-10.ucode -> iwlwifi-7265-10.ucode

File: iwlwifi-7265D-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode
Version: 16.242414.0

File: iwlwifi-7265D-17.ucode
Version: 17.352738.0

File: iwlwifi-7265D-21.ucode
Version: 21.302800.0

File: iwlwifi-7265D-22.ucode
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode
Version: 29.f2390aa8.0

File: iwlwifi-3168-21.ucode
Version: 21.302800.0

File: iwlwifi-3168-22.ucode
Version: 22.391740.0

File: iwlwifi-3168-27.ucode
Version: 27.541033.0

File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0

File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0
File: iwlwifi-8000C-16.ucode  
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode  
Version: 21.302800.0

File: iwlwifi-8000C-22.ucode  
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode  
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode  
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode  
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode  
Version: 36.ca7b901d.0

File: iwlwifi-8265-21.ucode  
Version: 21.302800.0

File: iwlwifi-8265-22.ucode  
Version: 22.391740.0

File: iwlwifi-8265-27.ucode  
Version: 27.541033.0

File: iwlwifi-8265-31.ucode  
Version: 31.560484.0

File: iwlwifi-8265-34.ucode  
Version: 34.610288.0

File: iwlwifi-8265-36.ucode  
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode  
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode  
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode  
Version: 38.755cfdd8.0
File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfd8d.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode
Version: 55.d9698065.0
File: iwlwifi-Qu-b0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-hr-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-Qu-b0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-ty-a0-gf-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-cc-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0.pnvm

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Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware
Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311f0e49c5a18b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

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Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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Driver: typhoon - 3cr990 series Typhoon
File: 3com/typhoon.bin

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*/

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--------------------------------------------------------------------------

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998
Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * warranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 * - Loaded from xl_init upon adapter initialization.
 *
 * Available from 3Com as part of their standard 3C359 driver.
 */

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds
Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis
Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

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Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

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Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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--------------------------------------------------------------------------

Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.


--------------------------------------------------------------------------

Driver: dvb-tpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

--------------------------------------------------------------------------

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

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--------------------------------------------------------------------------

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin
Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from http://www.mediatek.com/en/downloads/

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details
Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details


Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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---------------------------------------------------------------------

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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---------------------------------------------------------------------

Driver: radeon - ATI Radeon
File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_cp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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--------------------------------------------------------------------------

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEedar_me.bin
File: radeon/CEedar_pfp.bin
File: radeon/CEedar_rlc.bin
File: radeon/CEedar_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_ce.bin
File: radeon/BONAIRE_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin
File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAIL_ce.bin
File: radeon/HAWAIL_mc.bin
File: radeon/HAWAIL_mc2.bin
File: radeon/HAWAIL_me.bin
File: radeon/HAWAIL_mec.bin
File: radeon/HAWAIL_pfp.bin
File: radeon/HAWAIL_rlc.bin
File: radeon/HAWAIL_sdma.bin
File: radeon/HAWAIL_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_k_smc.bin
File: radeon/pitcairn_mc.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/bonaire_uvd.bin
File: amdgpu/bonaire_vce.bin
File: amdgpu/hawaii_ce.bin
File: amdgpu/hawaii_k_smc.bin
File: amdgpu/hawaii_mc.bin
File: amdgpu/hawaii_me.bin
File: amdgpu/hawaii_mec.bin
File: amdgpu/hawaii_pfp.bin
File: amdgpu/hawaii_rlc.bin
File: amdgpu/hawaii_sdma.bin
File: amdgpu/hawaii_sdma1.bin
File: amdgpu/hawaii_smc.bin
File: amdgpu/hawaii_uvd.bin
File: amdgpu/hawaii_vce.bin
File: amdgpu/kabini_ce.bin
File: amdgpu/kabini_me.bin
File: amdgpu/kabini_mec.bin
File: amdgpu/kabini_pfp.bin
File: amdgpu/kabini_rlc.bin
File: amdgpu/kabini_sdma.bin
File: amdgpu/kabini_sdma1.bin
File: amdgpu/kabini_uvd.bin
File: amdgpu/kabini_vce.bin
File: amdgpu/mullins_ce.bin
File: amdgpu/mullins_me.bin
File: amdgpu/mullins_mec.bin
File: amdgpu/mullins_pfp.bin
File: amdgpu/mullins_rlc.bin
File: amdgpu/mullins_sdma.bin
File: amdgpu/mullins_sdma1.bin
File: amdgpu/mullins_uvd.bin
File: amdgpu/mullins_vce.bin
File: amdgpu/kaveri_ce.bin
File: amdgpu/kaveri_me.bin
File: amdgpu/kaveri_mec.bin
File: amdgpu/kaveri_mec2.bin
File: amdgpu/kaveri_pfp.bin
File: amdgpu/kaveri_rlc.bin
File: amdgpu/kaveri_sdma.bin
File: amdgpu/kaveri_sdma1.bin
File: amdgpu/kaveri_uvd.bin
File: amdgpu/kaveri_vce.bin
File: amdgpu/topaz_ce.bin
File: amdgpu/topaz_k_smc.bin
File: amdgpu/topaz_mc.bin
File: amdgpu/topaz_me.bin
File: amdgpu/topaz_mec2.bin
File: amdgpu/topaz_mec.bin
File: amdgpu/topaz_pfp.bin
File: amdgpu/topaz_rlc.bin
File: amdgpu/topaz_sdma1.bin
File: amdgpu/topaz_sdma.bin
File: amdgpu/topaz_smc.bin
File: amdgpu/tonga_ce.bin
File: amdgpu/tonga_k_smc.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
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File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
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File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris12_me_2.bin
File: amdgpu/polaris12_mec.bin
File: amdgpu/polaris12_mec_2.bin
File: amdgpu/polaris12_mec2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_pfp.bin
File: amdgpu/polaris12_pfp_2.bin
File: amdgpu/polaris12_rlc.bin
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File: amdgpu/polaris12_vce.bin
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File: amdgpu/vegam_mec.bin
File: amdgpu/vegam_mec2.bin
File: amdgpu/vegam_pfp.bin
File: amdgpu/vegam_rlc.bin
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File: amdgpu/vegam_sdma1.bin
File: amdgpu/vegam_smc.bin
File: amdgpu/vegam_uvd.bin
File: amdgpu/vegam_vce.bin
File: amdgpu/vega10_acg_smc.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega10_ce.bin
File: amdgpu/vega10_gpu_info.bin
File: amdgpu/vega10_me.bin
File: amdgpu/vega10_mec.bin
File: amdgpu/vega10_mec2.bin
File: amdgpu/vega10_pfp.bin
File: amdgpu/vega10_rlc.bin
File: amdgpu/vega10_sdma.bin
File: amdgpu/vega10_sdma1.bin
File: amdgpu/vega10_smc.bin
File: amdgpu/vega10_sos.bin
File: amdgpu/vega10_uvd.bin
File: amdgpu/vega10_vce.bin
File: amdgpu/vega12_asd.bin
File: amdgpu/vega12_ce.bin
File: amdgpu/vega12_gpu_info.bin
File: amdgpu/vega12_me.bin
File: amdgpu/vega12_mec.bin
File: amdgpu/vega12_mec2.bin
File: amdgpu/vega12_pfp.bin
File: amdgpu/vega12_rlc.bin
File: amdgpu/vega12_sdma.bin
File: amdgpu/vega12_sdma1.bin
File: amdgpu/vega12_smc.bin
File: amdgpu/vega12_sos.bin
File: amdgpu/vega12_uvd.bin
File: amdgpu/vega12_vce.bin
File: amdgpu/vega20_asd.bin
File: amdgpu/vega20_ce.bin
File: amdgpu/vega20_me.bin
File: amdgpu/vega20_mec.bin
File: amdgpu/vega20_mec2.bin
File: amdgpu/vega20_pfp.bin
File: amdgpu/vega20_rlc.bin
File: amdgpu/vega20_sdma.bin
File: amdgpu/vega20_sdma1.bin
File: amdgpu/vega20_smc.bin
File: amdgpu/vega20_sos.bin
File: amdgpu/vega20_uvd.bin
File: amdgpu/vega20_vce.bin
File: amdgpu/vega20_ta.bin
File: amdgpu/raven_asd.bin
File: amdgpu/raven_ce.bin
File: amdgpu/raven_gpu_info.bin
File: amdgpu/raven_me.bin
File: amdgpu/raven_mec.bin
File: amdgpu/raven_mec2.bin
File: amdgpu/raven_pfp.bin
File: amdgpu/raven_rlc.bin
File: amdgpu/raven_sdma.bin
File: amdgpu/raven_vcn.bin
File: amdgpu/raven_dmcu.bin
File: amdgpu/raven_kicker_rlc.bin
File: amdgpu/raven_ta.bin
File: amdgpu/picasso_asd.bin
File: amdgpu/picasso_ce.bin
File: amdgpu/picasso_gpu_info.bin
File: amdgpu/picasso_me.bin
File: amdgpu/picasso_mec.bin
File: amdgpu/picasso_mec2.bin
File: amdgpu/picasso_pfp.bin
File: amdgpu/picasso_rlc.bin
File: amdgpu/picasso_rlc_am4.bin
File: amdgpu/picasso_sdma.bin
File: amdgpu/picasso_vcn.bin
File: amdgpu/picasso_ta.bin
File: amdgpu/raven2_asd.bin
File: amdgpu/raven2_ce.bin
File: amdgpu/raven2_gpu_info.bin
File: amdgpu/raven2_me.bin
File: amdgpu/raven2_mec.bin
File: amdgpu/raven2_mec2.bin
File: amdgpu/raven2_pfp.bin
File: amdgpu/raven2_rlc.bin
File: amdgpu/raven2_sdma.bin
File: amdgpu/raven2_vcn.bin
File: amdgpu/raven2_ta.bin
File: amdgpu/navi10_asd.bin
File: amdgpu/navi10_ce.bin
File: amdgpu/navi10_gpu_info.bin
File: amdgpu/navi10_me.bin
File: amdgpu/navi10_mec.bin
File: amdgpu/navi10_mec2.bin
File: amdgpu/navi10_pfp.bin
File: amdgpu/navi10_rlc.bin
File: amdgpu/navi10_sdma.bin
File: amdgpu/navi10_sdma1.bin
File: amdgpu/navi10_smc.bin
File: amdgpu/navi10_sos.bin
File: amdgpu/navi10_vcn.bin
File: amdgpu/navi10_ta.bin
File: amdgpu/navi14_asd.bin
File: amdgpu/navi14_ce.bin
File: amdgpu/navi14_ce_wks.bin
File: amdgpu/navi14_gpu_info.bin
File: amdgpu/navi14_me.bin
File: amdgpu/navi14_me_wks.bin
File: amdgpu/navi14_mec.bin
File: amdgpu/navi14_mec_wks.bin
File: amdgpu/navi14_mec2.bin
File: amdgpu/navi14_mec2_wks.bin
File: amdgpu/navi14_pfp.bin
File: amdgpu/navi14_pfp_wks.bin
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File: amdgpu/navi14_sdma.bin
File: amdgpu/navi14_sdma1.bin
File: amdgpu/navi14_smc.bin
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File: amdgpu/navi14_vcn.bin
File: amdgpu/navi14_ta.bin
File: amdgpu/navi12_asd.bin
File: amdgpu/navi12_ce.bin
File: amdgpu/navi12_dmcu.bin
File: amdgpu/navi12_gpu_info.bin
File: amdgpu/navi12_me.bin
File: amdgpu/navi12_mec.bin
File: amdgpu/navi12_mec2.bin
File: amdgpu/navy_flounder_pfp.bin
File: amdgpu/navy_flounder_rlc.bin
File: amdgpu/navy_flounder_sdma.bin
File: amdgpu/navy_flounder_smc.bin
File: amdgpu/navy_flounder_sos.bin
File: amdgpu/navy_flounder_ta.bin
File: amdgpu/navy_flounder_vcn.bin
File: amdgpu/arcturus_asd.bin
File: amdgpu/arcturus_gpu_info.bin
File: amdgpu/arcturus_mec2.bin
File: amdgpu/arcturus_mec.bin
File: amdgpu/arcturus_rlc.bin
File: amdgpu/arcturus_sdma.bin
File: amdgpu/arcturus_smc.bin
File: amdgpu/arcturus_sos.bin
File: amdgpu/arcturus_ta.bin
File: amdgpu/arcturus_vcn.bin
File: amdgpu/dimgrey_cavefish_ce.bin
File: amdgpu/dimgrey_cavefish_dmcub.bin
File: amdgpu/dimgrey_cavefish_me.bin
File: amdgpu/dimgrey_cavefish_mec.bin
File: amdgpu/dimgrey_cavefish_mec2.bin
File: amdgpu/dimgrey_cavefish_pfp.bin
File: amdgpu/dimgrey_cavefish_rlc.bin
File: amdgpu/dimgrey_cavefish_sdma.bin
File: amdgpu/dimgrey_cavefish_smc.bin
File: amdgpu/dimgrey_cavefish_sos.bin
File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin

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Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset
File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on

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Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:
This file contains firmware data derived from proprietary unpublished source code, Copyright (c) 2010 Exar Corporation.

Permission is hereby granted for the distribution of this firmware data in hexadecimal or equivalent format, provided this copyright notice is accompanying it.

Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
File: cypress/cyfmac4356-sdio.bin
Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfmac4356-sdio.bin
File: cypress/cyfmac4356-sdio.clm_blob
Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfmac4356-sdio.clm_blob
File: cypress/cyfmac43570-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
File: cypress/cyfmac43570-pcie.clm_blob
Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfmac43570-pcie.clm_blob
File: cypress/cyfmac4373-sdio.bin
Link: brcm/brcmfmac4373-sdio.bin -> ../cypress/cyfmac4373-sdio.bin
File: cypress/cyfmac4373-sdio.clm_blob
Link: brcm/brcmfmac4373-sdio.clm_blob -> ../cypress/cyfmac4373-sdio.clm_blob
File: cypress/cyfmac54591-pcie.bin
Link: brcm/brcmfmac54591-pcie.bin -> ../cypress/cyfmac54591-pcie.bin
File: cypress/cyfmac54591-pcie.clm_blob
Link: brcm/brcmfmac54591-pcie.clm_blob -> ../cypress/cyfmac54591-pcie.clm_blob

Licence: Redistributable. See LICENCE.cypress for details.

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.prdia-basic.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
Link: brcm/brcmfmac43362-sdio.lemaker,bananapro.txt -> brcmfmac43362-sdio.cubietech,cubietruck.txt
File: "brcm/brcmfmac43430a0-sdio.iliife-S806.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-zero.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-ultra.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-w.txt -> brcmfmac43430-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt -> brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43455-sdio.raspberrypi,Raspberry\ Pi\ \ Foundation-Raspberry\ Pi\ \ 4\ \ Module\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ \ Foundation-Raspberry\ Pi\ \ Compute\ Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43455-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: brcm/brcmfmac4356-sdio.vamrs,rock960.txt
Link: brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.vamrs,rock960.txt

Licence: GPLv2. See GPL-2 for details.

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Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
Copyright 2010 STMicroelectronics

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Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

---------------------------------------------------------------------------------
Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
The NVS file includes two parts:
- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:


If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

Telegent System grants permission to use and redistribute these firmware files for use with devices containing the chip tlg2300, but not as a part of the Linux kernel or in any other form which would require these files themselves to be covered by the terms of the GNU General Public License. These firmware files are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's r8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cefw.bin
File: rtlwifi/rtl8192cefwU.bin
File: rtlwifi/rtl8192cefwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin
Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver
All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c
Relevant variables (CONFIG_BT_COEXISTENCE not set):
- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFwUMCACutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rd8192CUFwTSMCImgArray

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver r8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin
Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported
by rtw88 because the hardware arch is similar.

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Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A

File: rtw89/rtw8852a_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ee_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
File: rtlwifi/rtl8723bs_nic.bin
File: rtlwifi/rtl8723bs_ap_wowlan.bin
File: rtlwifi/rtl8723bs_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2
File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1

File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:
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* notice is accompanying it.

--------------------------------------------------------------------------

Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw


--------------------------------------------------------------------------

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x01102000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x21020000.dfu
File: ar3k/ramps_0x21020000_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/athオス_firmware for details

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

Driver: Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/ramps_0x31010100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR6003
File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4-1.0-00047
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3_fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_fw.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04
File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2
Licence: ath11k/IPQ6018/hw1.0/Notice.txt

File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2
Licence: ath11k/IPQ8074/hw2.0/Notice.txt

File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-01740-QCAHSTSWPLZ_V2_TO_X86-1
Licence: ath11k/QCA6390/hw2.0/Notice.txt
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable.  See LICENCE.myri10ge_firmware for details.

--------------------------------------------------------

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: drxk - Micronas DRX-K demodulator driver
File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

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Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
Licence: Redistributable.

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence. See GPL-2 for details.

--------------------------------------------------------------------------

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsound-firmware package.

--------------------------------------------------------------------------

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL23884
File:intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL23884

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b-fw.bin
File: rtl_bt/rtl8723bs-fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.

File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip

File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

Licence: Redistributable.

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/ir192.fw
File: go7007/px-n402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

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Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2020-11-20
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2020-11-20

License: Redistributable. See LICENSE.amd-sev for details

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Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2019-12-18

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Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

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Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

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Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

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------------------------------------------------------------------------------------------------
Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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------------------------------------------------------------------------
Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

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Driver: rsi -- Redpine Signals Inc 91x driver
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

Licence:
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Driver: xhci-rкар -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

--------------------------------------------------------------------------

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

--------------------------------------------------------------------------

Driver: as102 - Abilis Systems Single DVB-T Receiver
File: as102_data1_st.hex
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

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Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

License: Redistributable. See LICENCE.it913x for details

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Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

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Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

--------------------------------------------------------------------------

Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> dsp_fw_release_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v3366.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp_fw_cnl.bin -> dsp_fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details
Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02 fw
File: sms1xxx-hcw-55xxx-isdbt-02 fw
File: sms1xxx-nova-a-dvbt-01 fw
File: sms1xxx-nova-b-dvbt-01 fw
File: sms1xxx-stellar-dvbt-01 fw
File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin
Version: v55.15

File: nvidia/tegra194/xusb.bin
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin
File: nvidia/tegra186/vic04_ucode.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucode.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
File: atusb/atusb-0.3.dfu
Version: 0.3
File: atusb/rzusb-0.3.bin
Version: 0.3
Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

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Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin  
File: qca/nvm_usb_00130200_0104.bin  
File: qca/nvm_usb_00130200_0105.bin  
File: qca/nvm_usb_00130200_0106.bin  
File: qca/nvm_usb_00130200_0107.bin  
File: qca/nvm_usb_00130200_0110.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbfw21.tlv  
File: qca/crnv21.bin  
File: qca/crbfw32.tlv  
File: qca/crnv32.bin  
File: qca/crnv32u.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin  
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin  
Version: v1.7.2

File: liquidio/lio_210nv_nic.bin  
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin  
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin  
Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

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Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw  
Version: v01
File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake
File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake
File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake
File: i915/icl_guc_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin  
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin  
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin  
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin  
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/icl_huc_9.0.0.bin  
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin  
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin  
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin  
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin  
Version: Guc API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_huc_7.0.3.bin  
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin  
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin  
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin  
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin  
Version: DMC API/APB ver 2 release 2 for DG1
License: Redistributable. See LICENSE.i915 for details

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin  -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
Link: nvidia/gm206/acr/ucode_unload.bin
File: nvidia/gm206/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gp/gpccs_bl.bin -> ../../../gm200/gp/gpccs_bl.bin
File: nvidia/gp100/gp/gpccs_data.bin
File: nvidia/gp100/gp/gpccs_inst.bin
File: nvidia/gp100/gp/gpccs_sig.bin
File: nvidia/gp100/gp/sw_bundle_init.bin
File: nvidia/gp100/gp/sw_ctx.bin
File: nvidia/gp100/gp/sw_method_init.bin
File: nvidia/gp100/gp/sw_nonctx.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
Link: nvidia/gp102/gp/fecs_bl.bin -> ../../../gm200/gp/fecs_bl.bin
File: nvidia/gp102/gp/fecs_data.bin
File: nvidia/gp102/gp/fecs_inst.bin
File: nvidia/gp102/gp/fecs_sig.bin
Link: nvidia/gp102/gp/gpccs_bl.bin -> ../../../gm200/gp/gpccs_bl.bin
File: nvidia/gp102/gp/gpccs_data.bin
File: nvidia/gp102/gp/gpccs_inst.bin
File: nvidia/gp102/gp/gpccs_sig.bin
File: nvidia/gp102/gp/sw_bundle_init.bin
File: nvidia/gp102/gp/sw_ctx.bin
File: nvidia/gp102/gp/sw_method_init.bin
File: nvidia/gp102/gp/sw_nonctx.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
Link: nvidia/gp104/acr/bl.bin -> ../../../gp102/acr/bl.bin
Link: nvidia/gp104/acr/ucode_load.bin -> ../../../gp102/acr/ucode_load.bin
Link: nvidia/gp104/acr/ucode_unload.bin -> ../../../gp102/acr/ucode_unload.bin
Link: nvidia/gp104/acr/unload_bl.bin -> ../../../gp102/acr/unload_bl.bin
Link: nvidia/gp104/gp/fecs_bl.bin -> ../../../gp102/gp/fecs_bl.bin
File: nvidia/gp104/gp/fecs_data.bin
File: nvidia/gp104/gp/fecs_inst.bin
File: nvidia/gp104/gp/fecs_sig.bin
Link: nvidia/gp104/gp/gpccs_bl.bin -> ../../../gp102/gp/gpccs_bl.bin
File: nvidia/gp104/gp/gpccs_data.bin
File: nvidia/gp104/gp/gpccs_inst.bin
File: nvidia/gp104/gp/gpccs_sig.bin
Link: nvidia/gp104/gp/sw_bundle_init.bin -> ../../../gp102/gp/sw_bundle_init.bin
Link: nvidia/gp104/gp/sw_ctx.bin -> ../../../gp102/gp/sw_ctx.bin
Link: nvidia/gp104/gp/sw_method_init.bin -> ../../../gp102/gp/sw_method_init.bin
Link: nvidia/gp104/gp/sw_nonctx.bin -> ../../../gp102/gp/sw_nonctx.bin
Link: nvidia/gp104/nvdec/scrubber.bin -> ../../../gp102/nvdec/scrubber.bin
File: nvidia/gv100/gr/feccs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin
File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/feccs_bl.bin
File: nvidia/tu102/gr/feccs_data.bin
File: nvidia/tu102/gr/feccs_inst.bin
File: nvidia/tu102/gr/feccs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/feccs_bl.bin -> ../../../tu102/gr/feccs_bl.bin
File: nvidia/tu104/gr/feccs_data.bin
File: nvidia/tu104/gr/feccs_inst.bin
File: nvidia/tu104/gr/feccs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin

File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../tu116/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

--------------------------------------------------------------------------

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.4

License: Redistributable. See LICENSE.atmel for details

--------------------------------------------------------------------------
Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

------------------------------------------------------------------------------

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_0_9.bin

Licence: Redistributable. See LICENCE.ti-keystone for details.

------------------------------------------------------------------------------

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

------------------------------------------------------------------------------

Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

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--------------------------------------------------------------------------

Driver: mtk_scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

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--------------------------------------------------------------------------

Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

--------------------------------------------------------------------------

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.
Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediaktek for details.

---------------------------------------------------------------------------

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediaktek_company_firmware for details

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Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediaktek for details.

---------------------------------------------------------------------------

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediaktek for details.
Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200131
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7915e - MediaTek MT7915e Wireless MACs

File: mediatek/mt7915_wm.bin
Version: 20201105
File: mediatek/mt7915_wa.bin
Version: 20201105
File: mediatek/mt7915_rom_patch.bin
Version: 20201105

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20210612122717a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20210612122753
Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20210223142901

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20210223142901

Licence: Redistributable. See LICENCE.ediatek for details.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  6809

File: netronome/nic-sriov/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0078-0011_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw

Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw


File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

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Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt
File: qcom/venus-5.4/venus.b00
File: qcom/venus-5.4/venus.b01
File: qcom/venus-5.4/venus.b02
File: qcom/venus-5.4/venus.b03
File: qcom/venus-5.4/venus.b04
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt
File: qcom/vpu-1.0/venus.b00
File: qcom/vpu-1.0/venus.b01
File: qcom/vpu-1.0/venus.b02
File: qcom/vpu-1.0/venus.b03
File: qcom/vpu-1.0/venus.b04
File: qcom/vpu-1.0/venus.b05
File: qcom/vpu-1.0/venus.b06
File: qcom/vpu-1.0/venus.b07
File: qcom/vpu-1.0/venus.b08
File: qcom/vpu-1.0/venus.b09
File: qcom/vpu-1.0/venus.b10
File: qcom/vpu-1.0/venus.b19
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt
File: qcom/vpu-2.0/venus.b00
File: qcom/vpu-2.0/venus.b01
File: qcom/vpu-2.0/venus.b02
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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https://developer.qualcomm.com/hardware/dragonboard-410c/tools

Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

Licence: Redistributable. See LICENSE.sdma_firmware for details

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw

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https://developer.qualcomm.com/hardware/dragonboard-410c/tools

Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware
File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn
File: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
File: qcom/sdm845/cdspr.jsn
File: qcom/sm8250/adsp.mbn
File: qcom/sm8250/adspr.jsn
File: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
File: qcom/sm8250/cdspr.jsn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
https://github.com/andersson/pil-squasher

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
https://github.com/andersson/pil-squasher

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem.mbn
File: qcom/sdm845/modemuw.jsn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0
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Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0.ls1088a.itb
File: dpaa2/mc/mc_10.10.0.ls2088a.itb
File: dpaa2/mc/mc_10.10.0.lx2160a.itb
File: dpaa2/mc/mc_10.14.3.ls1088a.itb
File: dpaa2/mc/mc_10.14.3.ls2088a.itb
File: dpaa2/mc/mc_10.14.3.lx2160a.itb
File: dpaa2/mc/mc_10.16.2.ls1088a.itb
File: dpaa2/mc/mc_10.16.2.ls2088a.itb
File: dpaa2/mc/mc_10.16.2.lx2160a.itb
File: dpaa2/mc/mc_10.18.0.ls1088a.itb
File: dpaa2/mc/mc_10.18.0.ls2088a.itb
File: dpaa2/mc/mc_10.18.0.lx2160a.itb

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Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

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Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sm1_hevc_mmu.bin
File: meson/vdec/sm1_vp9_mmu.bin

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Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.16.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.16.0.pkg

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File: intel/ice/ddp-comms/ice_comms-1.3.20.0.pkg

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Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin
File: inside-secure/eip197_minifw/ifpp.bin
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Driver: prestera - Marvell driver for Prestera family ASIC devices

File: mrvl/prestera/mvsw_prestera_fw-v2.0.img
File: mrvl/prestera/mvsw_prestera_fw-v3.0.img

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Driver: lt9611uxc - Lontium DSI to HDMI bridge

File: lt9611uxc_fw.bin

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Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: silabs/wfm_wf200_C0.sec
Version: 3.12.1

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1.784 cxf-rt-transports-http 2.7.18.SP7-redhat-1

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1.788 libjpeg 6b

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability: for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpcocm" and "wrjpcocm", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.
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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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b) Use a suitable shared library mechanism for linking with the
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Protocol Buffers for Go with Gadgets

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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <p></p>
 * <p>Example:</p>
 * <p>*/
* `<code>`String encoded = Base64.encode( myByteArray );`<code>`
* `<br />
* `<code>`byte[] myByteArray = Base64.decode( encoded );`<code>`
* `<p/>
* `<p>`The `<tt>`options`<tt>` parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* `encodeBytes( bytes, options )` the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>
* `<p/>
* `<p>`Note, according to `<a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>`,
* Section 2.1, implementations should not add line feeds unless explicitly told
* to do so. I've got Base64 set to this behavior now, although earlier versions
* broke lines by default.</p>
* `<p/>
* `<p>`The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>
* `<p/>
* `<code>`String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );`<code>`
* `<p>`to compress the data before encoding it and then making the output have newline characters.</p>
* `<p>`Also...</p>
* `<code>`String encoded = Base64.encodeBytes( crazyString.getBytes() );`<code>`
* `<p/>
* `<p/>
* `<p>`Change Log:
* `<p>`
* `<ul>
* `<li>`v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* `<li>`v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* `<li>`v2.3.5 - Fixed bug in `[@link #encodeFromFile]` where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* `<li>`v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* `[@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)]`
* method.</li>
* `<li>`v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the [ @link #encodeBytesToBytes(byte[]) ] family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added [ @link #encodeBytesToBytes(byte[], int, int, int) ] and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* <ul>
* <li><em>Does not break lines, by default.</em> This is to keep in compliance with
* <li>Throws exceptions instead of returning null values. </li>
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions as needed
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<lt; 40 bytes). </li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ul>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* </ul>

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.

* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).

* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

* v2.0 - I got rid of methods that used booleans to set options.

* Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int s that you "OR" together).

* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).

* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).

* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams.

* Added the ability to GZip-compress objects before encoding them.

* v1.4 - Added helper methods to read/write files.

* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

* v1.3.3 - Fixed I/O streams which were totally messed up.

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1.799 xalan 2.7.1-redhat-3

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/IntVector.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/Constants.java
* /opt/ cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/PositionCall.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/functions/FunctionDef1Arg.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/UnionPathExpr.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/operations/Gt.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/domapi/XPathExpressionImpl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/dtm/DTM.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/Sort.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/trace/ExtensionEvent.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/ProcessorImport.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/dtm/ref/DTDStringPool.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/functions/FuncGenerateId.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/runtime/BasisLibrary.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/ClonerToResultTree.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_ko.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/functions/FuncQname.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/dtm/ref/SAX2RTFDTM.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xsltc/compiler/RelativePathPattern.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xml/dtm/DTMStringPool.java
jar/org/apache/xpath/functions/FuncExtFunction.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/dtm/Axis.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/LastCall.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xml/utils/SerializableLocatorImpl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ru.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/runtime/ErrorMessages_tr.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xml/dtm/ref/SecuritySupport12.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/util/NodeSortRecordGenerator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/KeyPattern.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/NodeType.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/key/KeyReflIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/KeyPattern.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/xsltc/compiler/util/StringType.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/lib/sql/ObjectFactory.java

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/ElemChoose.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/NumberCall.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/Copy.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/AVT.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/TopLevelElement.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/AbsolutePathPattern.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/trax/TemplatesHandlerImpl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/VariableStack.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/SecuritySupport12.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/Whitespace.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/runtime/output/StringOutputBuffer.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/ProcessingInstruction.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/DecimalToRoman.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/dom/CurrentNodeListFilter.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/res/XSLTErrorResources_sl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/cmdline/ObjectFactory.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/DecimalFormatting.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/runtime/ErrorMessages_it.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/BinOpExpr.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/When.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/XalanProperties.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/compiler/util/NamedMethodGenerator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/dom/XSLTCDTMManager.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/ElemPI.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xml/dtm/ref/DTMAxisIteratorBase.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/templates/RedundentExprEliminator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/axes/UnionPathIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xslt/compiler/Closure.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/axes/AttributeIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/templates/AVTPartSimple.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/transformer/NodeSortKey.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/functions/WrongNumberArgsException.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/operations/Plus.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xslt/runtime/Hashtable.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/trace/GenerateEvent.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xslt/compiler/Step.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/axes/WalkerFactory.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/axes/WalkingIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/compiler/Attribute.java

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

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* /opt/ cola/permit 1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/trax/trax.properties
* /opt/ cola/permit 1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/ cola/permit 1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/res/XSLTInfo.properties
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*/
/*
 */
*$Id$
*/
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of 
 * the Xalan release.
 * <P>This class implements the upcoming standard of having 
 * org.apache.project-name.Version.getVersion() be a standard way 
 * to get version information. This class will replace the older 
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for 
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version 
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like 
 * 
 * Futurework: have this read version info from jar manifest. 
 * 
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + " " +getImplementationLanguage() + " 
    +getMajorVersionNum() + "." +getReleaseVersionNum() + "\n" 
    +(getDevelopmentVersionNum() > 0) ? 
    ("D" +getDevelopmentVersionNum()) : ("" +getMaintenanceVersionNum());
}
/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
* - a new set of functionality is to be added, eg,
* implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* a drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String(@version.DEVELOPER@)).length() == 0)
            return 0;
        else
            return Integer.parseInt(@version.DEVELOPER@);
    }
}
} catch (NumberFormatException nfe) {
    return 0;
}

*/

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/objects/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/javadocOverview.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/package.html
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*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
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1.800 redhat-logos 84.5-1.el8

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.803 perl-pod-escapes 1.07-395.el8

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Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-
=head1 NAME

Pod::Escapes - for resolving Pod EE lt...E gt sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
...la la la, parsing POD, la la la...
$text = e2char($e_node->label);
unless(defined $text) {
    print "Unknown E sequence \", $e_node->label, ", EOF!";
}
...else print/interpolate $text...

=head1 DESCRIPTION

This module provides things that are useful in decoding
Pod EE lt...E gt sequences. Presumably, it should be used
only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But
you can request any of them to be exported.
Either request them individually, as with
C<use Pod::Escapes qw(symbolname symbolname2...);>,
or you can do C<use Pod::Escapes qw(:ALL);> to get all
exportable symbols.

=head1 GOODIES

=over

=item e2char($e_content)

Given a name or number that could appear in a
C<EE lt$name_or_numE gt> sequence, this returns the string that
it stands for. For example, C<e2char('sol')>, C<e2char('47')>,
C<e2char('0x2F')>, and C<e2char('057')> all return "/",
because C<EE lt$solE gt>, C<EE lt$47E gt>, C<EE lt$0x2F$gt>, and C<EE lt$057$gt>, all mean "/". If
the name has no known value (as with a name of "qacute") or is
syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e_content)

Given a name or number that could appear in a
C\langle name_or_num\rangle sequence, this returns the number of the Unicode character that this stands for. For example, C\langle e2char('sol')\rangle, C\langle e2char('47')\rangle, C\langle e2char('0x2F')\rangle, and C\langle e2char('057')\rangle all return 47, because C\langle EE\langle I\rangle solE\rangle, C\langle EE\langle I\rangle 47E\rangle, C\langle EE\langle I\rangle 0x2FE\rangle, and C\langle EE\langle I\rangle 057E\rangle, all mean "/", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character{I<name>}

Maps from names (as in C\langle EE\langle I\rangle 1<name>\rangle) like "eacute" or "sol" to the string that each stands for. Note that this does not include numerics (like "64" or "x981c"). Under old Perl versions (before 5.7) you get a "?" in place of characters whose Unicode value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in C\langle EE\langle I\rangle 1<name>\rangle) like "eacute" or "sol" to the Unicode value that each stands for. For example, C\langle $Name2character_number{eacute}\rangle is 201, and C\langle $Name2character_number{eacute}\rangle is 8364. You get the correct Unicode value, regardless of the version of Perl you're using -- which differs from C\langle %Name2character\rangle's behavior under pre-5.7 Perls.

Note that this hash does not include numerics (like "64" or "x981c").

=item $Latin1Code_to_fallback{I<integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps from the character code for a Latin-1 character (like 233 for lowercase e-acute) to the US-ASCII character that best approximates it (like "e"). You may find this useful if you are rendering POD in a format that you think deals well only with US-ASCII characters.

=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "xE9", lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding character (like space, for 32). Only characters 32 to 126 are defined. This is meant for use by C\langle e2char($x)\rangle when it senses...
that it's running on a non-ASCII platform (where chr(32) doesn't
get you a space -- but $Code2USASCII{32} will). It's
documented here just in case you might find it useful.

=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value
over 255 (like lambda or emdash) can't be conveyed. This
module does work under such early Perl versions, but in the
place of each such character, you get a ". Latin-1
characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the
same as C<chr(e2charnum($n))>, and ditto for
C<$Name2character{$name}> and
C<chr($Name2character_number{$name})>, because the strings are returned as
native, and the numbers are returned as Unicode.
However, for Perls starting with v5.8, C<e2char($n)> is the same as
C<chr(utf8::unicode_to_native(e2charnum($n)))>, and ditto for
C<$Name2character{$name}> and
C<chr(utf8::unicode_to_native($Name2character_number{$name}))>.

=head1 SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.

L<perlpod> - description of pod format (for people documenting with pod).

L<perlpodspec> - specification of pod format (for people processing it).

L<Text::Unidecode> - ASCII transliteration of Unicode text.

=head1 REPOSITORY

L<https://github.com/neilbowers/Pod-Escapes>

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it under the same terms as Perl itself.
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merchantability or fitness for a particular purpose.

Portions of the data tables in this module are derived from the
entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

Now being maintained by Neil Bowers E<lt>neilb@cpan.orgE<gt>

=cut

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# What I used for reading the XHTML .ent files:

my(@norms, @good, @bad);
my $dir = 'c:/sgml/docbook/';
my %escapes;
foreach my $file (qw(
    xhtml-symbol.ent
    xhtml-lat1.ent
    xhtml-special.ent
)) {
    open(IN, "<$dir$file") or die "can't read-open $dir$file: $!";
    print "Reading $file...\n";
    while(<IN>) {
        if(m/<ENTITY[^<]+(&S+)+&[^#]+;[^/>]+)/) {
            my($name, $value) = ($1,$2);
            next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';
            $value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/is;
            print "ILLEGAL VALUE $value" unless $value =~ m/\d+/is;
            if($value > 255) {
                push @good , sprintf " %-10s , chr($value),
                push @bad , sprintf " %-10s , $bad,
                push @norms, sprintf " %-10s , chr($value),
            } else {
                push @good , sprintf " %-10s , chr($value),
                push @bad , sprintf " %-10s , $bad,
                push @norms, sprintf " %-10s , chr($value),
            }
elsif(m/<!ENT/)
    print "# Skipping $_;"

}

close(IN);

print @norms;
print "\n ( \$] .= 5.006001 ? (\n"
print @good;
print " ) : (\n"
print @bad;
print " )\n"

_END_
#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548111_1591901918.14/0/perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-GKGiQNjB/Pod-Escapes-1.07/lib/Pod/Escapes.pm
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---
abstract: unknown
author:
    - unknown
buildRequires:
    ExtUtils::MakeMaker: '0'
configureRequires:
    ExtUtils::MakeMaker: '0'
dynamicConfig: 1
generatedBy: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.143240'
license: perl
metaSpec:
    url: http://module-build.sourceforge.net/META-spec-v1.4.html
    version: '1.4'
name: Pod-Escapes
noIndex:
directory:
    - t
    - inc
requires:
    Exporter: '0'
    perl: '5.006'
    strict: '0'
    vars: '0'
warnings: '0'
resources:
  repository: git://github.com/neilbowers/Pod-Escapes.git
  version: '1.07'

Found in path(s):

1.804 copy-jdk-configs 4.0-2.el8

1.804.1 Available under license:

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1.805 slf4j-log4j 1.5.8

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1.806 perl-mime-base64 3.15 396.el8

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This package contains a base64 encoder/decoder and a quoted-printable encoder/decoder. These encoding methods are specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions).

The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

In order to install and use this package you will need Perl version 5.6 or better. Installation as usual:

perl Makefile.PL
make
make test
make install

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---
abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author: 
- 'Gisle Aas <gisle@activestate.com>"
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: MIME::Base64
noIndex:
directory:
  - t
  - inc
requires:
  XSLoader: 0
  perl: 5.004
resources:
  repository: https://github.com/gisle/mime-base64
  version: 3.15

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=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPSIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.
The following primary functions are provided:

=item encode_base64( $bytes )

=item encode_base64( $bytes, $eol );

Encode data by calling the encode_base64() function. The first argument is the byte string to encode. The second argument is the line-ending sequence to use. It is optional and defaults to “\n”. The returned encoded string is broken into lines of no more than 76 characters each and it will end with $eol unless it is empty. Pass an empty string as second argument if you do not want the encoded string to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes contains characters with code above 255. The base64 encoding is only defined for single-byte characters. Use the Encode module to select the byte encoding you want.

=item decode_base64( $str )

Decode a base64 string by calling the decode_base64() function. This function takes a single argument which is the string to decode and returns the decoded data.

Any character not part of the 65-character base64 subset is silently ignored. Characters occurring after a '=' padding character are never decoded.

=back

If you prefer not to import these routines into your namespace, you can call them as:

use MIME::Base64 ();
$encoded = MIME::Base64::encode($decoded);
$decoded = MIME::Base64::decode($encoded);

Additional functions not exported by default:

=item encode_base64url( $bytes )

=item decode_base64url( $str )
Encode and decode according to the base64 scheme for "URL applications" [1]. This is a variant of the base64 encoding which does not use padding, does not break the string into multiple lines and use the characters "-" and "_" instead of "+" and "/" to avoid using reserved URL characters.

=item encoded_base64_length( $bytes )

=item encoded_base64_length( $bytes, $eol )

Returns the length that the encoded string would have without actually encoding it. This will return the same value as C<< length(encode_base64($bytes)) >>, but should be more efficient.

=item decoded_base64_length( $str )

Returns the length that the decoded string would have without actually decoding it. This will return the same value as C<< length(decode_base64($str)) >>, but should be more efficient.

=back

=head1 EXAMPLES

If you want to encode a large file, you should encode it in chunks that are a multiple of 57 bytes. This ensures that the base64 lines line up and that you do not end up with padding in the middle. 57 bytes of data fills one complete base64 line (76 == 57*4/3):

use MIME::Base64 qw(encode_base64);

open(FILE, "./var/log/wtmp") or die "$!";
while (read(FILE, $buf, 60*57)) {
    print encode_base64($buf);
}

or if you know you have enough memory

use MIME::Base64 qw(encode_base64);
local($) = undef;  # slurp
print encode_base64(<STDIN>);

The same approach as a command line:

perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:
Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```perl
use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "x{FFFF}\n");
print $encoded;
```

=head1 COPYRIGHT


This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans Mulder <hanssm@wsinti07.win.tue.nl>

The XS implementation uses code from metamail. Copyright 1991 Bell Communications Research, Inc. (Bellcore)

=head1 SEE ALSO

L<MIME::QuotedPrint>


=cut

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810387_1591379702.59/0/perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15.tar.gz-cosi-expand-archive-Y9WxESAM/MIME-Base64-3.15/Base64.pm
=head1 NAME

MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the
quoted-printable encoding specified in RFC 2045 - I<MIME (Multipurpose
Internet Mail Extensions)>. The quoted-printable encoding is intended
to represent data that largely consists of bytes that correspond to
printable characters in the ASCII character set. Each non-printable
character (as defined by English Americans) is represented by a
triplet consisting of the character "=" followed by two hexadecimal
digits.

The following functions are provided:

=over 4

=item encode_qp( $str)

=item encode_qp( $str, $eol)

=item encode_qp( $str, $eol, $binmode )

This function returns an encoded version of the string ($str) given as
argument.

The second argument ($eol) is the line-ending sequence to use. It is
optional and defaults to "\n". Every occurrence of "\n" is replaced
with this string, and it is also used for additional "soft line
breaks" to ensure that no line end up longer than 76 characters. Pass
it as "\015\012" to produce data suitable for external consumption.
The string "\r\n" produces the same result on many platforms, but not
all.

The third argument ($binmode) will select binary mode if passed as a
TRUE value. In binary mode "\n" will be encoded in the same way as
any other non-printable character. This ensures that a decoder will
end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L<MIME::Base64>.

An $eol of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.

=item decode_qp($str )

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\r\n" terminated lines.

=back

If you prefer not to import these routines into your namespace, you can call them as:

use MIME::QuotedPrint ();
$encoded = MIME::QuotedPrint::encode($decoded);
$decoded = MIME::QuotedPrint::decode($encoded);

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the quoted-printable encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

use MIME::QuotedPrint qw(encode_qp);
use Encode qw(encode);

$encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;

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=head1 SEE ALSO

L<MIME::Base64>

=cut
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/*

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<html>
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<p>Class, field, and method level annotations for describing thread-safety policies.</p>
</body>
</html>
Three class-level annotations describe the intended thread-safety promises of a class: `@Immutable`, `@ThreadSafe`, and `@NotThreadSafe`. `@Immutable` means that the class is immutable, and implies `@ThreadSafe`. `@NotThreadSafe` is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use `@NotThreadSafe`.

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `@Immutable` actually is immutable.

Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The `@GuardedBy(lock)` annotation documents that a field or method should be accessed only with a specific lock held.
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Source Files
------------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from
http://www.ijs.si/software/snprintf/.

The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The `-mdoc` macro set, using the BSD license.

  tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The `-me` macro set, using the BSD license.

  tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of the TeX system written by Donald E. Knuth; the master file can be found at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>`, e.g., `hyphen.de` or `hyphen.uk`.

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. The file `tmac/hyphen.fr` contains the same patterns as the file `frhyph.tex` (for TeX), which can be found at

  http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex
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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehyphpt.tex' (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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1.814 generex 1.0.2
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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java
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  e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.840 goprotobuf 1.0.0
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Go support for Protocol Buffers - Google's data interchange format

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13:38:07 sandoz Exp $
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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.850 json-cpp 1.9.5

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1.851 openssl 3.0.3

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.865 cryptography 37.0.2

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1.867 mpg123 1.25.10-2.el8

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1.868 rfkill 2.32.1-28.el8

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1.869 pyatspi 2.26.0-6.el8

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  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/CompileException.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/compiler/AccessorNode.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/PreFixIncNode.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/VariableResolverFactory.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/ClassImportResolverFactory.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ParserContext.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/LineLabel.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/DoUntilNode.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/MapVariableResolverFactory.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/conversion/UnitConversion.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/AssignmentNode.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/TypeInjectionResolverFactory.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ParseContext.java
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  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/TemplateSyntaxError.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/Unit.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2/MVELRuntime.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2/debug/Debugger.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2/OptimizationFailure.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/Negation.java
/opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/conversion/BooleanCH.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/PreFixDecNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/ast/ThisWithNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/util/ArrayTools.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/ast/Union.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/Interceptor.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/ast/IndexedPostFixIncNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/sh/command/basic/NestedStatement.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/sh/command/file/FileCommandSet.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/util/ThisLiteral.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/ast/OperatorNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/NestedStatement.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/optimizers/AbstractOptimizer.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/optimizers/dynamic/DynamicCollectionAccessor.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/DoNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/Node.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ConversionHandler.java

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  jar/org/mvel2/optimizers/iml/refl/collection/ExprValueAccessor.java
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  jar/org/mvel2/optimizers/iml/refl/nodes/FieldAccessorNH.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
  jar/org/mvel2/optimizers/iml/refl/nodes/IndexedCharSeqAccessor.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class have been derived from
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* 
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/**
 * A decoder that splits the received {
 * link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is 12 (0x0C) which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *<pre>
 * <tt>lengthFieldOffset</tt> = 0
 * <tt>lengthFieldLength</tt> = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +--------+----------------+----+--------+----------------+
 * | Length | Actual Content |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +--------+----------------+----+--------+----------------+
 *
 *
 */
Because we can get the length of the content by calling
{@link ByteBuf#readableBytes()}, you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
lengthAdjustment. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
as <tt>lengthAdjustment</tt> for compensation.

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

The following message is a simple variation of the first example. An extra
header value is prepended to the message. lengthAdjustment is zero
again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* "pre"
* "b"<lengthFieldOffset" = "b"2" (= the length of Header 1)
* "b"<lengthFieldLength" = "b"3"
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+------+-+----------+----------+----------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |      | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+------+-+----------+----------+----------------+
* "pre"
*
* "h"3"3 bytes length field at the beginning of 5 bytes header, do not strip header"/h"3"
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive "tt"lengthAdjustment"/tt" so that the decoder counts the extra
* header into the frame length calculation.
* "pre"
* lengthFieldOffset = 0
* lengthFieldLength = 3
* "b"<lengthAdjustment"/b" = "b"2" (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+------+-+----------+----------+----------------+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |      | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +----------+----------+----------------+------+-+----------+----------+----------------+
* "pre"
*
* "h"3"2 bytes length field at the beginning of 4 bytes header,
* strip the first header field and the length field"/h"3"
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the "tt"lengthFieldOffset"/tt" and the extra
* header affects the "tt"lengthAdjustment"/tt". We also specified a non-zero
* "tt"initialBytesToStrip"/tt" to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify "tt"0"/tt" for "tt"initialBytesToSkip"/tt".
* "pre"
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* "b"<lengthAdjustment"/b" = "b"1" (= the length of HDR2)
* "b"<initialBytesToStrip"/b" = "b"3" (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes)                   AFTER DECODE (13 bytes)
* +-----------------------------+          +-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+          +-----------------------------+
* </pre>

* BEFORE DECODE (16 bytes)                   AFTER DECODE (13 bytes)
* +-----------------------------+          +-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+          +-----------------------------+
* </pre>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
* </pre>

* BEFORE DECODE (16 bytes)                   AFTER DECODE (13 bytes)
* +-----------------------------+          +-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------------+          +-----------------------------+
* </pre>

* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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1.892 gnome-session 3.28.1-13.el8

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/caucho/BurlapProxyFactoryBean.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/caocho/BurlapTransport.java
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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* /opt/cola/permits/1132217609_1613127049.0/0/opensaml-2-5-3-redhat-2-sources-jar/org/opensaml/xacml/ctx/impl/RequestType.java
* /opt/cola/permits/1132217609_1613127049.0/0/opensaml-2-5-3-redhat-2-sources-jar/org/opensaml/xacml/policy/impl/SubjectQueryMarshaller.java
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* /opt/cola/permits/1132217609_1613127049.0/0/opensaml-2-5-3-redhat-2-sources-jar/META-INF/maven/org.opensaml/opensaml/effective-pom.xml

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/**
 * @return true iff the encoder cannot provide confidentiality
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/**
 * @param flag override flag
 */

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1.905 libevent 2.1.8 5.el8
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1.907 os-prober 1.74-9.el8

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1.912 libvisual 0.4.0-25.el8

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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  jar/org/jboss/naming/remote/client/RemoteContext.java
* /opt/cola/permits/1110675666_1654022899.4285066/0/jboss-remote-naming-1-0-5-final-sources-1-
  jar/org/jboss/naming/remote/server/RemoteNamingServer.java
* /opt/cola/permits/1110675666_1654022899.4285066/0/jboss-remote-naming-1-0-5-final-sources-1-
  jar/org/jboss/naming/remote/protocol/IoFutureHelper.java
* /opt/cola/permits/1110675666_1654022899.4285066/0/jboss-remote-naming-1-0-5-final-sources-1-
  jar/org/jboss/naming/remote/client/SecurityActions.java
* /opt/cola/permits/1110675666_1654022899.4285066/0/jboss-remote-naming-1-0-5-final-sources-1-
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The project maintains the following source code repositories:

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=head1 NAME

Errno - System errno constants

=head1 SYNOPSIS

use Errno qw(EINTR EIO :POSIX);

=head1 DESCRIPTION

C<Errno> defines and conditionally exports all the error constants
defined in your system F<errno.h> include file. It has a single export
tag, C<:POSIX>, which will export all POSIX defined error numbers.

On Windows, C<Errno> also defines and conditionally exports all the
Winsock error constants defined in your system F<WinError.h> include
file. These are included in a second export tag, C<:WINSOCK>.

C<Errno> also makes C<%!> magic such that each element of C<%!> has a
non-zero value only if C<$!> is set to that value. For example:

my $fh;
unless (open($fh, "<", "/fangorn/spouse")) {
   if ($!{ENOENT}) {
      warn "Get a wife!\n";
   } else {
      warn "This path is barred: $!";
   }
}

If a specified constant C<EFOO> does not exist on the system, C<$!{EFOO}> returns C<"">. You may use C<exists $!{EFOO}> to check whether the
constant is available on the system.
Perl automatically loads 
\texttt{C<Errno>} the first time you use 
\texttt{C<%!>>, so you don't need an explicit \texttt{C<use>}.}

=head1 CAVEATS

Importing a particular constant may not be very portable, because the import will fail on platforms that do not have that constant. A more portable way to set \texttt{C<$!>} to a valid value is to use:

if (exists \&\texttt{Errno::EFOO}) {
    \$! = \&\texttt{Errno::EFOO};
}

=head1 AUTHOR

Graham Barr <gbarr@pobox.com>

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=cut

# ex: set ro:

Found in path(s):
* /opt/cola/permits/1277991222_1652757650.0574512/0/perl-Errno-1.28-421.el8.aarch64.src.rpm-cosi-expand-archive-hmSPiW2u/usr/lib64/perl5/Errno.pm

1.925 python-simpleline 1.1.1-2.el8

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Ty Coon, President of Vice

That's all there is to it!

1.927 perl-threads 2.21 2.el8
1.927.1 Available under license :

No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
Hash::Util: '0'
IO::File: '0'
Test::More: '0'
XSLoader: '0'
overload: '0'
strict: '0'
warnings: '0'
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

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/*

ppport.h -- Perl/Pollution/Portability Version 3.32

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

---------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.32

=head1 SYNOPSIS

perl ppport.h [options] [source files]
Searches current directory for files if no [source files] are given

--help                     show short help
--version                  show version
--patch=file               write one patch file with changes
--copy=suffix              write changed copies with suffix
--diff=program            use diff program and options
--compat-version=version   provide compatibility with Perl version
--cplusplus                accept C++ comments
--quiet                    don't output anything except fatal errors
--nodiag                   don't show diagnostics
--nohints                  don't show hints
--nochanges                don't suggest changes
--nofilter                 don't filter input files
--strip                    strip all script and doc functionality from
                           ppport.h
--list-provided            list provided API
--list-unsupported         list unsupported API
--api-info=name            show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=file

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=suffix
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C\--patch\> or C\--copy\> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=\texttt{head2 --diff=I<program>}

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=\texttt{head2 --compat-version=I<version>}

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=\texttt{head2 --cplusplus}

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=\texttt{head2 --quiet}

Be quiet. Don't print anything except fatal errors.

=\texttt{head2 --nodiaf}

Don't output any diagnostic messages. Only portability alerts will be printed.

=\texttt{head2 --nohints}

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=\texttt{head2 --nochanges}
Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<
DPPP_NAMESPACE> macro. Just C#define> the macro before including C<ppport.h>: 

#define DPPP_NAMESPACE MyOwnNamespace
#include "ppport.h"

The default namespace is C<DPPP_>. 

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for
details.
EXAMPLES

To verify whether *ppport.h* is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, *ppport.h* can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```perl
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```perl
perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `<_nomg>` functions or
perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.
Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.32;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 8057


if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}.\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}.\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+/|([^|]*)\|([^|]*)\|([^|]*)$/ => ($1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
})
    : die "invalid spec: $_" } qw(ASCII_TO_NEED)|5.007001|n
AvFILLp|5.004050||p
AvFILL||
BhkDISABLE|5.021008|
BhkENABLE|5.021008|
BhkENTRY_set|5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE

CX_CURPAD_SV

CopFILEAV[5.006000]p
CopFILEGV_set[5.006000]p
CopFILEGV[5.006000]p
CopFILESV[5.006000]p
CopFILE_set[5.006000]p
CopFILE[5.006000]p
CopSTASHPV_set[5.006000]p
CopSTASHPV[5.006000]p
CopSTASH_eq[5.006000]p
CopSTASH_set[5.006000]p
CopSTASH[5.006000]p
CopyD[5.009002]5.004050]p
Copy[]

CvPADLIST[5.008001]

CvSTASH[]

CvWEEKOUTSIDE[]

DEFSV_set[5.010001]p
DEFSV[5.004050]p

END_EXTERN_C[5.005000]p

ENTER[]

ERRSV[5.004050]p

EXTERN_C[]

F0convert[]n

FREETMPS[]

GIMME_V[5.004000]n

GIMME[]n

GROK_NUMERIC_RADIX[5.007002]p

G_ARRAY[]

G_DISCARD[]

G_EVAL[]

G_METHOD[5.006001]p

G_NOARGS[]

G_SCALAR[]

G_VOID[5.004000]

GetVars[]

GvAV[]

GvCV[]

GvHV[]

GvSVn[5.009003]p

GvSV[]

Gv_AMupdate[5.011000]

HEf_SVKEY[5.003070]p

HeHASH[5.003070]

HeKEY[5.003070]

HeKLEN[5.003070]
PERL_MAGIC_delelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qrl|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_ut8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_REGPROP|5.009004||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.003070||p
PerlIO_get_cnt[5.007003]
PerlIO_get_ptr[5.007003]
PerlIO_read[5.007003]
PerlIO_restore_errno
PerlIO_save_errno
PerlIO_seek[5.007003]
PerlIO_set_cnt[5.007003]
PerlIO_set_ptrcnt[5.007003]
PerlIO_setlinebuf[5.007003]
PerlIO_stderr[5.007003]
PerlIO_stdin[5.007003]
PerlIO_stdout[5.007003]
PerlIO_tell[5.007003]
PerlIO_unread[5.007003]
PerlIO_write[5.007003]
Perl_signbit[5.009005]
PoisonFree[5.009004]
PoisonNew[5.009004]
PoisonWith[5.009004]
Poison[5.008000]
READ_XDIGIT[5.017006]
RETVAL
Renewc
Renew
SAVECLEARSV
SAVECOMPPAD
SAVEPADSV
SAVETMPS
SAVE_DEFSV[5.004050]
SPAGAIN
SP
START_EXTERN_C[5.005000]
START_MY_CTX[5.007003]
STMT_END
STMT_START
STR_WITH_LEN[5.009003]
ST
SV_CONST_RETURN[5.009003]
SV_COW.Drop_PV[5.008001]
SV_COW_SHARED_HASH_KEYS[5.009005]
SV_GMAGIC[5.007002]
SV_HAS_TRAILING_NUL[5.009004]
SV_IMMEDIATE_UNREF[5.007001]
SV_MUTABLE_RETURN[5.009003]
SV_NOSTEAL[5.009002]
SV_SMAGIC[5.009003]
SV_UTF8_NO_ENCODING[5.008001]
SVfARG[5.009005]
SvUOK|5.007001|5.006000|p
SvUPE|  
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000||p
SvUVX|5.004000||p
SvUV_nog|5.009001||p
SvUV_set|5.009003||p
SvUVx|5.004000||p
SvUV|5.004000||p
SvVOK|5.008001|
SvVSTRING_nog|5.009004||p
THIS||n
UNDERBAR|5.009002||p
UTF8_MAXBYTES|5.009002||p
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVX|5.007001||p
UV_of|5.006000||p
UVuf|5.006000||p
UVxf|5.006000||p
WARN_ALL|5.006000||p
WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.021008||p
WARN_BAREWORD|5.006000||p
WARN_CLOSED|5.006000||p
WARN_CLOSURE|5.006000||p
WARN_DEBUGGING|5.006000||p
WARN_DEPRECATED|5.006000||p
WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SEMICOLON|5.006000||p
WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||p
WARN_VOID|5.006000||p
WIDEST_UTYPE|5.015004||p
XCPT_CATCH|5.009002||p
XCPT_RETHROW|5.009002||p
XCPT_TRY_END|5.009002||p
XCPT_TRY_START|5.009002||p
XPUSHi||
XPUSHmortal|5.009002||p
XPUSHn||
XPUSHp||
XPUSHs||
XPUSHu|5.004000||p
XSPROTO|5.010000||p
XSRETURN_EMPTY||
XSRETURN_IV||
XSRETURN_NO||
XSRETURN_NV||
XSRETURN_PV||
XSRETURN_UNDEF||
XSRETURN_UV|5.008001||p
XSRETURN_YES||
XSRETURN|||p
XST_mIV||
XST_mNO||
XST_mNV||
XST_mPV||
XST_mUNDEF||
XST_mUV|5.008001||p
XST_mYES||| XS_APIVERSION_BOOTCHECK]5.021008
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        wrap_op_checker][5.015008]
        write_to_stdferr][n
        xs_boot_epilog][n
        xs_handshake][vn
        xs_version_bootcheck][n
        yyerror_pvn][n
        yyerror_pv][n
        yyerror][n
        yylex][n
        yyparse][n
        yyunlex][n
        yywarn][n
    );
}

else {$f}
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}

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$define = [$1, $2] if m{ ^\s*#\s*define\s+\(\w+\)?\(\[^\)]*\)?\s+(.*) };

if ($function) {
  if (/^\)/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  } else {
    $function->[1] .= $_;
  }
}

$function = [$1, ] if m{ ^DPPP_\(my_(\w+)\) }; 

$replace = $1 if m{ ^\s*$rcce\s+Replace: \s+(\w+)\s+$rcce\s*$ }; 
$replace{$2} = $1 if $replace and m{ ^\s*#\s*define\s+\(\w+\)?\(\[^\)]*\)?\s+(\w+)\s+$rcce\s*$ }; 
$replace{$2} = $1 if m{ ^\s*#\s*define\s+\(\w+\)?\(\[^\)]*\)?\s+(\w+)\s+Replace\s+\s+$rcce\s*$ }; 
$replace{$1} = $2 if m{ ^\s*$rcce\s+Replace \s+((\w+)\s+with\s+(\w+))\s+$rcce\s*$ }; 

if (m{ ^\s*$rcce\s+\(\w+\)?\(\[^\)]*\)?\s+depends\s+(\w+\)?\(\[^\)]*\)?\s+(\w+\)?\(\[^\)]*\)?\s+$rcce\s*$ }) {
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{ ^\s*!\s+defined\(\!\s+(\w+\)?\(\[^\)]*\)?\s+GLOBAL\)?\)?\s+$rcce\s*$ };
}

for (values %depends) {
  my %s;
  $_. = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "$n=== $f ===

$info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base.
";
    $info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.
";
    print "Support needs to be explicitly requested by NEED_$f."
        if exists $need{$f};
    print "Depends on: ", join(’, ’, @{$depends{$f}}), ".\n" if exists $depends{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.\n";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : ';
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
        }
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}

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info("Scanning $filename ...");

my $c = do { local $/; <IN> }; close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
  ( ^$HS*#^HS*include\b[^\r\n]*\b(\Q$ppport\E|XSUB\.h)\b[^\r\n]*
   | ^$HS*#^HS*(?:define|elif|if(?:def)?)\b[^\r\n]*
   | ^[^\r\n]*| "[^"\\]*(?:\\.["\\]*)*"
   | '[^'\\]*(?:\\.['\\]*)*' 
   | / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[\^\r\n]*) )
} { defined $2 and push @ccom, $2; defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#^HS*include[^\r\n]+\b\Q$ppport\E\b[^\r\n]*
   | ^$HS*#^HS*(?:define|elif|if(?:def)?)\b[^\r\n]*
   | ^[^\r\n]*| "[^"\\]*(?:\\.["\\]*)*"
   | '[^'\\]*(?:\\.['\\]*)*' 
   | / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[\^\r\n]*) )
} defined $2 and push \@ccom, $2;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /Ab(?:Perl_)?(?:\$match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /AbPerl_\$func/;
  } if (exists $API{$func}{provided}) {
    $file{uses_provided}{$func}++;
    if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
      $file{uses}{$func}++;
      my @deps = rec_depend($func);
      if (@deps) {
        $file{uses_deps}{$func} = \@deps;
        for (@deps) {
          $file{uses}{$_} = 0 unless exists $file{uses}{$_};
        }
      } for ($func, @deps) {
        $file{needs}{$_} = 'static' if exists $need{$_};
      }
    }
  }
  }
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;

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my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func} {varargs}) {
        unless ($API{$func} {nothxarg}) {
            my $changes = ($c =~ s{\bPerl_$func\s*(?!aTHX_\?)(?!\s*aTHX_\?)}{ $1 . ($2 eq 'aTHX' ? 'aTHX_' : 'aTHX_ ') . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*\([^aTHX_]*\)}{$func$1(}g);
        }
    }
    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }
    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(':', @{$file{uses_deps}{$func}}));
            } else {
                diag("Uses $func");
            }
            $warnings += hint($func);
        }
    }
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func} {todo}), ", even with "$ppport"
    }
    $warnings++;
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";

if (not exists $file{uses}[$func]) {
    $message = "No need to define NEED_$func if $func is never used";
}
elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ""
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files @ {$global{needs}[$func]} need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
        }
        $pp .= "#define NEED_$func$suffix\n";
    }
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
$pp = ''; 
$file{changes}++; 
}

unless ($file{has_inc_ppport}) {
diag("Needs to include \'$ppport\'\n"); 
$pp .= qq(#include \"$ppport\n\n\")
}

if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms) || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m) || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m) || ($c =~ s/^/$pp/); 
}
else {
if ($file{has_inc_ppport}) {
diag("No need to include \'$ppport\'\n"); 
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m); 
}
}
else {
if ($file{has_inc_ppport}) {
diag("Needs to include \'$ppport\'\n"); 
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m); 
}
}

my $ix; 
my $cppc = 0; 
my @ccom = @{$file{ccom}}; 
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
$cpps++; 
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/; 
}
else {
$c =~ s/$rccs$ix$rcce/$ccom[$ix]/; 
}
}
if ($cppc) {
my $s = $cppc != 1 ? 's' : ''; 
warning("Uses $cppc C++ style comment$s, which is not portable"); 
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ";";
info("Analysis completed\$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "\$filename\$opt{copy}";
        if (-e $newfile) {
            error("\$newfile' already exists, refusing to write copy of \$filename");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of \$filename' with changes to \$newfile");
                print F $c;
                close F;
            } else {
                error("Cannot open \$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open \$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
        } else {
            my $s = $file{changes} == 1 ? '' : 's';
            info("\$file{changes} potentially required change$s detected");
        } else {
            info("Looks good");
        }
    }
sub try_use { eval "use @$_; return @$_ eq " \n"
}

sub mydiff {
    local *F = shift;
    my($file, $str) = @$_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @$_;
    my $tmpl = 'dppptemp';
my $suf = 'aaa';
my $diff = '';
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
  print F $str;
  close F;

  if (open F, "$prog $file $tmp |") {
    while (<F>) {
      s/^/$file.patched/;
      $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  }
  unlink $tmp;
}
else {
  error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
  my($func, $seen) = @_; 
  return () unless exists $depends{$func};
  $seen = {%{$seen||{}}};
  return () if $seen->{$func}++;
  my %s;
  grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /\^\[(d+)\.(d+)\.(d+)\]/) {
    return ($1, $2, $3);
  }
  elsif ($ver !~ /\^d+\[/) {
    return (0, 0, 0);
  }
  else {
    error("Cannot parse version: "$ver");
  }
  return $ver;
}
die "cannot parse version '$ver'\n";
}

$ver =~ s/\._//g;
$ver =~ s/$/000000/;

my($r, $v, $s) = $ver =~ /\(\d+\).\(\d{3}\).\(\d{3}\)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver'\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r, $v, $s) = $ver =~ /\(\d+\).\(\d{3}\).\(\d{3}\)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
}
print @_, "\n";
}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

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print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;

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# NAME

threads - Perl interpreter-based threads

# VERSION

This document describes threads version 2.21

# WARNING

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially discouraged.

# SYNOPSIS

```perl
use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {
    my @args = @_;
    print("Thread started: ", join(" ", @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();
```
threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({'context' => 'list'},
    sub { return (qw/a b c/); });
my @results = $thr->join();
$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({ 'context' => 'list',
    'stack_size' => 32*4096,
    'exit' => 'thread_only',
    
    &foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
treads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:.

    use threads;
    use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)

It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.

If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
# Do processing using threads
...
} else {
# Do it without using threads
...
}
=over
=item $thr = threads->create(FUNCTION, ARGS)
This will create a new thread that will begin execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.
I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.
my $thr = threads->create('func_name', ...);
# or
my $thr = threads->create(sub { ... }, ...);
# or
my $thr = threads->create(\&func, ...);
The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.
=item $thr->join()
This will wait for the corresponding thread to complete its execution. When
the thread finishes, C<-E<gt>join()> will return the return value(s) of the
entry point function.
The context (void, scalar or list) for the return value(s) for C<-E<gt>join()>
is determined at the time of thread creation.
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
my @results = qw(a b c);
return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
sub {
my @results = qw(a b c);
return (@results);
});

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# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create(
    'void' => 1,
    sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main
thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

use threads qw(stringify);

my $thr = threads->create(...);
print("Thread $thr started\n"); # Prints: Thread 1 started

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.
With a `false` argument (using `threads::joinable()`), returns a list of all non-joined, non-detached `threads` objects that have finished running (i.e., for which `threads::join()` will not block).

```
=item $thr1->equal($thr2)
```

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

```
if ($thr1 == $thr2) {
    print("Threads are the same\n");
}
# or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}
```

(Thread comparison is based on thread IDs.)

```
=item async BLOCK;
```

`async` creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like `threads::create()`, `async` returns a `threads` object.

```
=item $thr->error()
```

Threads are executed in an `eval` context. This method will return `undef` if the thread terminates normally. Otherwise, it returns the value of `C<$@>` associated with the thread's execution status in its `eval` context.

```
=item $thr->_handle()
```

This `private` method returns a pointer (i.e., the memory location expressed as an unsigned integer) to the internal thread structure associated with a threads object. For Win32, this is a pointer to the `C<HANDLE>` value returned by `C<CreateThread>` (i.e., `C<HANDLE *>`); for other platforms, it is a pointer to the `C<pthread_t>` structure used in the `C<pthread_create>` call (i.e., `C<pthread_t *>`).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

```
=item threads->_handle()
```
Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to
L<return()|perlfunc/"return EXPR"> from the entry point function with the
appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling
C<threads-E<gt>exit()> . This will cause the thread to return C<undef> in a
scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads-E<gt>exit()> (i.e., the
exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<die()> in a thread indicates an abnormal exit for the thread. Any
C<$SIG{__DIE__}> handler in the thread will be called first, and then the
thread will exit with a warning message that will contain any arguments passed
in the C<die()> call.

=item exit(status)

Calling L<exit()|perlfunc/"exit EXPR"> inside a thread causes the whole
application to terminate. Because of this, the use of C<exit()> inside
threaded code, or in modules that might be used in threaded applications, is
strongly discouraged.

If C<exit()> really is needed, then consider using the following:

   threads->exit() if threads->can('exit');  # Thread friendly
   exit(status);

=item use threads 'exit' => 'threads_only'
This globally overrides the default behavior of calling `exit()` inside a thread, and effectively causes such calls to behave the same as `threads->exit()`. In other words, with this setting, calling `exit()` causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The `<main>` thread is unaffected by this setting.

```perl
=item threads->create({'exit' => 'thread_only'}, ...)
```

This overrides the default behavior of `exit()` inside the newly created thread only.

```perl
=item $thr->set_thread_exit_only(boolean)
```

This can be used to change the `exit thread only` behavior for a thread after it has been created. With a `true` argument, `exit()` will cause only the thread to exit. With a `false` argument, `exit()` will terminate the application.

The `<main>` thread is unaffected by this call.

```perl
=item threads->set_thread_exit_only(boolean)
```

Class method for use inside a thread to change its own behavior for `exit()`.

The `<main>` thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the `state` of a thread.

```perl
=item $thr->is_running()
```

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

```perl
=item $thr->is_joinable()
```

Returns true if the thread has finished running, is not detached and has not
yet been joined. In other words, the thread is ready to be joined, and a call to $thr->join() will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=back

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()>(). The thread may then specify a value of the appropriate type to be returned from C<$thr->join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<$thr->create()> with a hash reference as the first argument:

my $thr = threads->create({'context' => 'list'}, \&foo);
...
my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function $thr will be called in list (array) context such that the parent thread can receive a list (array) from the $thr->join() call. (C<'array'> is synonymous with C<'list'>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:

my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();

The context type may also be used as the I<key> in the hash reference followed by a I<true> value:
threads->create(\{'scalar' => 1\}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the C<create()> call:

# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);

=head2 $thr->wantarray()

This returns the thread's context in the same manner as L<wantarray()>.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running L<wantarray()> inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.
=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the stack size to C>CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:

PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e'use threads; print(threads->get_stack_size(), "$n")'

This value overrides any C<stack_size> parameter given to C<use threads>. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)
To specify a particular stack size for any individual thread, call `C<create()>` with a hash reference as the first argument:

```perl
my $thr = threads->create( {'stack_size' => 32*4096},
  &foo, @args);
```

This creates a new thread (`$thr2`) that inherits the stack size from an existing thread (`$thr1`). This is shorthand for the following:

```perl
my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create( {'stack_size' => $stack_size},
  FUNCTION, ARGS);
```

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

```perl
$thr->kill('SIG...');
```

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by `L<kill()|perlfunc/>`. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to `C<kill()>`.

Returns the thread object to allow for method chaining:

```perl
$thr->kill('SIG...')->join();
```

Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here's an example for cancelling a thread:

```perl
use threads;

sub thr_func {  
  # Thread 'cancellation' signal handler  
  $SIG{'KILL'} = sub { threads->exit(); };  
```
...}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary I<suspend> and I<resume> capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It I<emulates> signals at the Perl-level
such that signal handlers are called in the appropriate thread. For example, sending \texttt{C<$thr-E<gt>kill('STOP')>\textgreater} does not actually suspend a thread (or the whole process), but does cause a \texttt{C<$SIG{'STOP'}>\textgreater} handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the \texttt{C<kill()> command (e.g., C<kill('KILL', $$)>) are okay to use with the C<$E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is I<stuck> on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

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=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed using C<no warnings 'threads';> as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for C<pthread_create> to determine the actual cause for the failure.

=item Thread # terminated abnormally: ... 

A thread terminated in some manner other than just returning from its entry point function, or by using C<threads-E<gt>exit(). For example, the thread may have terminated because of an error, or by using C<die>.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22
The specified \texttt{SIZE} exceeds the system's maximum stack size. Use a smaller value for the stack size.

\texttt{=back}

If needed, thread warnings can be suppressed by using:

\begin{verbatim}
no warnings 'threads';
\end{verbatim}

in the appropriate scope.

\texttt{=head1 ERRORS}

\texttt{=over 4}

\texttt{=item This Perl not built to support threads}

The particular copy of Perl that you're trying to use was not built using the \texttt{C<useithreads>} configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the \texttt{L<threads>} module (i.e., threaded and non-threaded Perls are binary incompatible).

\texttt{=item Cannot change stack size of an existing thread}

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

\begin{verbatim}
$thr->set_stack_size($size);
\end{verbatim}

\texttt{=item Cannot signal threads without safe signals}

Safe signals must be in effect to use the \texttt{C<-E<gt>kill>} signalling method. See \texttt{L</"Unsafe signals">} for more details.

\texttt{=item Unrecognized signal name: ...}

The particular copy of Perl that you're trying to use does not support the specified signal being used in a \texttt{C<-E<gt>kill>} call.

\texttt{=back}

\texttt{=head1 BUGS AND LIMITATIONS}

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if you've encountered is a known
problem.

=item Thread-safe modules

See L<perlmod/"Making your module threadsafe"> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<E<gt>import()> after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then C<E<gt>join()> or C<E<gt>detach()> them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<queues|Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of I<reusable> threads.
Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using C<chdir()>) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using C<system()> or back-ticks) made from threads use the environment variable settings from the I<main> thread. In other words, changes made to C<%ENV> in a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call. For example:

my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT

On MSWin32, each thread maintains its own set of environment variables.

Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than L</"THREAD SIGNALLING"> as documented above will not accomplish what is intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> to relay the signal to the thread:

# Create thread with a task that may time out
my $thr = threads->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); };
        alarm(10);
        ...  # Do work here
        alarm(0);
    };
    if ($@ =~ /Timeout/) {
        warn("Task in thread timed out\n");
    }
};
# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr-&gt;kill('ALRM') }

... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I&lt;parent&gt; threads while
there are still existing I&lt;child&gt; threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their
handling until the interpreter is in a I&lt;safe&gt; state. See
L&lt;perl58delta/"Safe Signals"&gt; and L&lt;perlipc/"Deferred Signals (Safe Signals)"&gt;
for more details.

Safe signals is the default behavior, and the old, immediate, unsafe
signalling behavior is only in effect in the following situations:

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=item * Perl has been built with C&lt;PERL_OLD_SIGNALS&gt; (see C&lt;perl -V&gt;).

=item * The environment variable C&lt;PERL_SIGNALS&gt; is set to C&lt;unsafe&gt;
(see L&lt;perlrun/"PERL_SIGNALS"&gt;).

=item * The module L&lt;Perl::Unsafe::Signals&gt; is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and
the C&lt;-E&lt;gt&gt;kill()&gt; signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a C&lt;join&gt; operation,
the value and everything that it references is copied across to the
joining thread, in much the same way that values are copied upon thread
creation. This works fine for most kinds of value, including arrays,
hashes, and subroutines. The copying recurses through array elements,
reference scalars, variables closed over by subroutines, and other kinds
of reference.

However, everything referenced by the returned value is a fresh copy in
the joining thread, even if a returned object had in the child thread
been a copy of something that previously existed in the parent thread. After joining, the parent will therefore have a duplicate of each such object. This sometimes matters, especially if the object gets mutated; this can especially matter for private data to which a returned subroutine provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects>/"OBJECTS">, you can pass them via L<shared queues>/Thread::Queue>.

=item END blocks in threads

It is possible to add C<END blocks> to threads by using L<require>/"require VERSION">, or L<eval>/"eval EXPR">, with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such a C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir>/"opendir DIRHANDLE,EXPR") will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.

=item Detached threads and global destruction

If the main thread exits while there are detached threads which are still running, then Perl's global destruction phase is not executed because otherwise certain global structures that control the operation of threads and that are allocated in the main thread's memory may get destroyed before the
detached thread is destroyed.

If you are using any code that requires the execution of the global destruction phase for clean up (e.g., removing temp files), then do not use detached threads, but rather join all threads before exiting the program.

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

threads on MetaCPAN: L<https://metacpan.org/release/threads>


L<threads::shared>, L<perlthrtut>


Perl threads mailing list: L<http://lists.perl.org/list/ithreads.html>

Stack size discussion: L<http://www.perlmonks.org/?node_id=532956>
Sample code in the examples directory of this distribution on CPAN.

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=head1 ACKNOWLEDGEMENTS

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Helping me out tons, trying to find reasons for races and other weird bugs!

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=cut

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/BundleLocationCondition.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/AllServiceListener.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/launch/FrameworkFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SignerProperty.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleReference.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org.osgi.core-4.2.0-sources-2-
  jar/org/osgi/service/packageadmin/RequiredBundle.java

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 */

/**
 * Return the certificates for the signers of this bundle and the
 * certificate chains for those signers.
 *
 * @param signersType If @link #SIGNERS_ALL is specified, then information
 * on all signers of this bundle is returned. If
 * @link #SIGNERS_TRUSTED is specified, then only information on
 * the signers of this bundle trusted by the framework is returned.
 * @return The <code>X509Certificate</code>s for the signers of this bundle
 * and the <code>X509Certificate</code> chains for those signers.
 */
The keys of the `<code>Map</code>` are the `<code>X509Certificate</code>`s of the signers of this bundle. The value for a key is a `<code>List</code>` containing the `<code>X509Certificate</code>` chain for the signer. The first item in the `<code>List</code>` is the signer's `<code>X509Certificate</code>` which is then followed by the rest of the `<code>X509Certificate</code>` chain. The returned `<code>Map</code>` will be empty if there are no signers. The returned `<code>Map</code>` is the property of the caller who is free to modify it.

@throws IllegalArgumentException If the specified `<code>signersType</code>` is not {@link #SIGNERS_ALL} or {@link #SIGNERS_TRUSTED}.

@since 1.5

*/

Found in path(s):
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Bundle.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SynchronousBundleListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/permissionadmin/PermissionAdmin.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/packageadmin/ExportedPackage.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceException.java
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Found in path(s):
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleException.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/InvalidSyntaxException.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/FrameworkListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceListener.java
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Found in path(s):
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleActivator.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceRegistration.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Filter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/AdminPermission.java

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*/opt/cola/permits/1136651970_1613848941.46/0/org.osgi-service-url/URLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org.osgi-service-url/URLStreamHandlerSetter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org.osgi-service-url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org.osgi-service-url/URLConstants.java

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/**
 * Creates a new <code>PackagePermission</code> object.
 *
 * <p>
 * The name is specified as a normal Java package name: a dot-separated
 * string. Wildcards may be used.
 *
 * <pre>
 * name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot;&gt; | *
 * </pre>
 *
 * Examples:
 *
 * `<pre>

For the `<code>import</code>` action, the name can also be a filter expression. The filter gives access to the following attributes:

- `<li>`<code>signer</code> - A Distinguished Name chain used to sign the exporting bundle. Wildcards in a DN are not matched according to the filter string rules, but according to the rules defined for a DN chain.</li>
- `<li>`<code>location</code> - The location of the exporting bundle.</li>
- `<li>`<code>id</code> - The bundle ID of the exporting bundle.</li>
- `<li>`<code>name</code> - The symbolic name of the exporting bundle.</li>
- `<li>`<code>package.name</code> - The name of the requested package.</li>

Filter attribute names are processed in a case sensitive manner.

A bundle that needs to export a package must have the appropriate `<code>PackagePermission</code>` for that package; similarly, a bundle that needs to import a package must have the appropriate `<code>PackagePermission</code>` for that package.

Permission is granted for both classes and resources.

@param name Package name or filter expression. A filter expression can only be specified if the specified action is `<code>import</code>`.

@throws IllegalArgumentException If the specified name is a filter expression and either the specified action is not `<code>import</code>` or the filter has an invalid syntax.

Found in path(s):

```
/opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/packagePermission.java
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1.940 userspace-rcu 0.10.1-4.el8

1.940.1 Available under license:

Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbf0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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1.953 cxf-rt-transports-http 2.7.18.SP6-redhat-1

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* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java.xml/bind/helpers/NotIdentifiableEventImpl.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java.xml/bind/validators/NotIdentifiableEventTypeImpl.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java.xml/bind/validators/ContextFinder.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java.xml/bind/validators/MarshallException.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java.xml/bind/validators/Messages.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java.xml/bind/validators/Validator.java
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@(#)package.html1.60 98/01/27

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* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/javas parallel/context/parseConversionEventImpl.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/javas parallel/Unmarshaller.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/javas parallel/TypeConstraintException.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/javas parallel/ValidationEventHandler.java
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* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/javas parallel/package.html
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* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AllValuesIterator.java
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* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentDoubleHistogram.java
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* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArraySingleWriterRecorder.java
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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

Found in path(s):
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use cfg_if::cfg_if;
use crate::errno::Errno;
use libc::{self, c_int};
use std::ptr;
use crate::sys::signal::Signal;
use crate::unistd::Pid;
use crate::Result;

pub type RequestType = c_int;

cfg_if! {
    if #[cfg(any(target_os = "dragonfly",
                 target_os = "freebsd",
                 target_os = "macos",
                 target_os = "openbsd"))]
    {
        #[doc(hidden)]
        pub type AddressType = *mut ::libc::c_char;
    } else {
        #[doc(hidden)]
        pub type AddressType = *mut ::libc::c_void;
    }
}

libc_enum! {  
    #[repr(i32)]
    // Ptrace Request enum defining the action to be taken.
    #[non_exhaustive]
    pub enum Request {
        PT_TRACE_ME,
        PT_READ_I,
        PT_READ_D,
        #[cfg(target_os = "macos")]
        PT_READ_U,
        PT_WRITE_I,
        PT_WRITE_D,
        #[cfg(target_os = "macos")]
        PT_WRITE_U,
        PT_CONTINUE,
    }
}
PT_KILL,
#cfg(any(any(target_os = "dragonfly",
    target_os = "freebsd",
    target_os = "macos"),
    all(target_os = "openbsd", target_arch = "x86_64"),
    all(target_os = "netbsd", any(target_arch = "x86_64",
    target_arch = "powerpc")))]
PT_STEP,
PT_ATTACH,
PT_DETACH,
#cfg(target_os = "macos")
PT_SIGEXC,
#cfg(target_os = "macos")
PT_THUPDATE,
#cfg(target_os = "macos")
PT_ATTACHEXC
}
}

unsafe fn ptrace_other(
    request: Request,
    pid: Pid,
    addr: AddressType,
    data: c_int,
) -> Result<c_int> {
    Errno::result(libc::ptrace(
        request as RequestType,
        libc::pid_t::from(pid),
        addr,
        data,
    ).map(|_| 0)
}

/// Sets the process as traceable, as with `ptrace(PTRACE_ME, ...)`
///
/// Indicates that this process is to be traced by its parent.
/// This is the only ptrace request to be issued by the tracee.
pub fn traceme() -> Result<()> {
    unsafe { ptrace_other(Request::PT_TRACE_ME, Pid::from_raw(0), ptr::null_mut(), 0).map(drop) }
}

/// Attach to a running process, as with `ptrace(PTRACE_ATTACH, ...)`
///
/// Attaches to the process specified by `pid`, making it a tracee of the calling process.
pub fn attach(pid: Pid) -> Result<()> {
    unsafe { ptrace_other(Request::PT_ATTACH, pid, ptr::null_mut(), 0).map(drop) }
}
/// Detaches the current running process, as with `ptrace(PT_DETACH, ...)``
///
/// Detaches from the process specified by `pid` allowing it to run freely, optionally delivering a
/// signal specified by `sig`.
pub fn detach<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        ptrace_other(Request::PT_DETACH, pid, ptr::null_mut(), data).map(drop)
    }
}

/// Restart the stopped tracee process, as with `ptrace(PTRACE_CONT, ...)``
///
/// Continues the execution of the process with PID `pid`, optionally
/// delivering a signal specified by `sig`.
pub fn cont<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
    let data = match sig.into() {
        Some(s) => s as c_int,
        None => 0,
    };
    unsafe {
        // Ignore the useless return value
        ptrace_other(Request::PT_CONTINUE, pid, 1 as AddressType, data).map(drop)
    }
}

/// Issues a kill request as with `ptrace(PT_KILL, ...)``
///
/// This request is equivalent to `ptrace(PT_CONTINUE, ..., SIGKILL);`
pub fn kill(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_KILL, pid, 0 as AddressType, 0).map(drop)
    }
}

/// Move the stopped tracee process forward by a single step as with
/// `ptrace(PT_STEP, ...)``
///
/// Advances the execution of the process with PID `pid` by a single step optionally delivering a
/// signal specified by `sig`.
///
/// # Example
/// ```rust
/// use nix::sys::ptrace::step;
/// use nix::unistd::Pid;
/// ```
/** use nix::sys::signal::Signal; */

/// If a process changes state to the stopped state because of a SIGUSR1
/// signal, this will step the process forward and forward the user
/// signal to the stopped process
///
/// match waitpid(Pid::from_raw(-1), None) {
///   Ok(WaitStatus::Stopped(pid, Signal::SIGUSR1)) => {
///     let _ = step(pid, Signal::SIGUSR1);
///   }
///   _ => {},
/// }
/// ```

#[cfg(any(
  any(target_os = "dragonfly", target_os = "freebsd", target_os = "macos"),
  all(target_os = "openbsd", target_os = "netbsd"),
  any(target_arch = "x86_64", target_arch = "powerpc")
))]

pub fn step<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
  let data = match sig.into() {
    Some(s) => s as c_int,
    None => 0,
  };
  unsafe { ptrace_other(Request::PT_STEP, pid, ptr::null_mut(), data).map(drop) }
}

/// Reads a word from a processes memory at the given address
pub fn read(pid: Pid, addr: AddressType) -> Result<c_int> {
  unsafe {
    let data = match sig.into() {
      Some(s) => s as c_int,
      None => 0,
    };
    ptrace_other(Request::PT_READ_D, pid, addr, 0).map(drop)
  }
}

/// Writes a word into the processes memory at the given address
pub fn write(pid: Pid, addr: AddressType, data: c_int) -> Result<()> {
  unsafe { ptrace_other(Request::PT_WRITE_D, pid, addr, data).map(drop) }
}

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wepoll-ffi: Bindings for wepoll
https://github.com/aclysma/wepoll-ffi

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wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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use cfg_if::cfg_if;
use crate::errno::Errno;
use libc::{self, c_int};
use std::ptr;
use crate::sys::signal::Signal;
use crate::unistd::Pid;
use crate::Result;

pub type RequestType = c_int;

cfg_if! {
if #[cfg(any(target_os = "dragonfly",  
        target_os = "freebsd",  
        target_os = "macos",  
        target_os = "openbsd"))] {  
    /// [doc(hidden)]  
    pub type AddressType = *mut ::libc::c_char;  
} else {  
    /// [doc(hidden)]  
    pub type AddressType = *mut ::libc::c_void;  
}

libc_enum! {  
    #[repr(i32)]  
    /// Ptrace Request enum defining the action to be taken.  
    pub enum Request {  
        PT_TRACE_ME,  
        PT_READ_I,  
        PT_READ_D,  
        #[cfg(target_os = "macos")]
        PT_READ_U,  
        PT_WRITE_I,  
        PT_WRITE_D,  
        #[cfg(target_os = "macos")]
        PT_WRITE_U,  
        PT_CONTINUE,  
        PT_KILL,  
        #[cfg(any(any(target_os = "dragonfly",  
                      target_os = "freebsd",  
                      target_os = "macos"),  
        all(target_os = "openbsd", target_arch = "x86_64"),  
        all(target_os = "netbsd", any(target_arch = "x86_64",  
                                 target_arch = "powerpc")))))]
        PT_STEP,  
        PT_ATTACH,  
        PT_DETACH,  
        #[cfg(target_os = "macos")]
        PT_SIGEXC,  
        #[cfg(target_os = "macos")]
        PT_THUPDATE,  
        #[cfg(target_os = "macos")]
        PT_ATTACHEXC  
    }
}

unsafe fn ptrace_other(  
    request: Request,  
    pid: Pid,
addr: AddressType,
data: c_int,
) -> Result<c_int> {  
    Errno::result(libc::ptrace(  
        request as RequestType,
        libc::pid_t::from(pid),
        addr,
        data,
    )).map(|_| 0)
}

/// Sets the process as traceable, as with `ptrace(PT_TRACE_ME, ...)`
///
/// Indicates that this process is to be traced by its parent.
/// This is the only ptrace request to be issued by the tracee.
pub fn traceme() -> Result<()> {  
    unsafe { ptrace_other(Request::PT_TRACE_ME, Pid::from_raw(0), ptr::null_mut(), 0).map(drop) }
}

/// Attach to a running process, as with `ptrace(PT_ATTACH, ...)`
///
/// Attaches to the process specified by `pid`, making it a tracee of the calling process.
pub fn attach(pid: Pid) -> Result<()> {  
    unsafe { ptrace_other(Request::PT_ATTACH, pid, ptr::null_mut(), 0).map(drop) }
}

/// Detaches the current running process, as with `ptrace(PT_DETACH, ...)`
///
/// Detaches from the process specified by `pid` allowing it to run freely, optionally delivering a
/// signal specified by `sig`.
pub fn detach<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {  
    let data = match sig.into() {  
        Some(s) => s as c_int,
        None => 0,
    };  
    unsafe {
        ptrace_other(Request::PT_DETACH, pid, ptr::null_mut(), data).map(drop)
    }
}

/// Restart the stopped tracee process, as with `ptrace(PTRACE_CONT, ...)`
///
/// Continues the execution of the process with PID `pid`, optionally
/// delivering a signal specified by `sig`.
pub fn cont<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {  
    let data = match sig.into() {  
        Some(s) => s as c_int,
        None => 0,
 unsafe {
    // Ignore the useless return value
    ptrace_other(Request::PT_CONTINUE, pid, 1 as AddressType, data).map(drop)
}

/// Issues a kill request as with `ptrace(PT_KILL, ...)`
///
/// This request is equivalent to `ptrace(PT_CONTINUE, ..., SIGKILL);`
pub fn kill(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_KILL, pid, 0 as AddressType, 0).map(drop)
    }
}

/// Move the stopped tracee process forward by a single step as with
/// `ptrace(PT_STEP, ...)`
///
/// Advances the execution of the process with PID `pid` by a single step optionally delivering a
/// signal specified by `sig`.
///
/// # Example
/// ```rust
/// use nix::sys::ptrace::step;
/// use nix::unistd::Pid;
/// use nix::sys::signal::Signal;
/// use nix::sys::wait::*;
/// // If a process changes state to the stopped state because of a SIGUSR1
/// // signal, this will step the process forward and forward the user
/// // signal to the stopped process
/// match waitpid(Pid::from_raw(-1), None) {
///     Ok(WaitStatus::Stopped(pid, Signal::SIGUSR1)) => {
///         let _ = step(pid, Signal::SIGUSR1);
///     }
///     _ => {},
/// }
/// ```
# [cfg(
    any(
        any(target_os = "dragonfly", target_os = "freebsd", target_os = "macos"),
        all(target_os = "openbsd", target_arch = "x86_64"),
        all(target_os = "netbsd",
            any(target_arch = "x86_64", target_arch = "powerpc")
        )
    )
)]
pub fn step<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
let data = match sig.into() {
    Some(s) => s as c_int,
    None => 0,
};
unsafe { ptrace_other(Request::PT_STEP, pid, ptr::null_mut(), data).map(drop) }
}

/// Reads a word from a processes memory at the given address
pub fn read(pid: Pid, addr: AddressType) -> Result<c_int> {
    unsafe {
        // Traditionally there was a difference between reading data or
        // instruction memory but not in modern systems.
        ptrace_other(Request::PT_READ_D, pid, addr, 0)
    }
}

/// Writes a word into the processes memory at the given address
pub fn write(pid: Pid, addr: AddressType, data: c_int) -> Result<()> {
    unsafe { ptrace_other(Request::PT_WRITE_D, pid, addr, data).map(drop) }
}

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wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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wepoll-ffi - epoll for Windows rust bindings
https://github.com/aclysma/wepoll-ffi

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use crate::{
    Error,
    Errno,
    NixPath,
    Result,
    sys::uio::IoVec
};
use libc::{c_char, c_int, c_uint, c_void};
use std::{

borrow::Cow,
ffi::{CString, CStr},
fmt,
io,
ptr
};

libc_bitflags!(
    /// Used with `Nmount::nmount`.
    pub struct MntFlags: c_int {
        #![cfg(any(target_os = "netbsd", target_os = "freebsd"))]
        MNT_ACLS;
        #![cfg(target_os = "freebsd")]
        MNT_ASYNC;
        /// dir should instead be a file system ID encoded as FSID:val0:val1.
        #![cfg(target_os = "freebsd")]
        MNT_BYFSID;
        /// Force a read-write mount even if the file system appears to be
        /// unclean.
        MNT_FORCE;
        #![cfg(target_os = "freebsd")]
        MNT_GJOURNAL;
        #![cfg(any(target_os = "macos", target_os = "freebsd"))]
        MNT_MULTILABEL;
        #![cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        MNT_NOCLUSTERR;
        #![cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        MNT_NOCLUSTERW;
        #![cfg(target_os = "freebsd")]
        MNT_NFS4ACLS;
        /// Do not update access times.
        MNT_NOATIME;
        /// Disallow program execution.
        MNT_NOEXEC;
        /// Do not honor setuid or setgid bits on files when executing them.
        MNT_NOSUID;
        /// Do not follow symlinks.
        #![cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        MNT_NOSYMFMFOLLOW;
        /// Mount read-only.
        MNT_RDONLY;
/// Causes the vfs subsystem to update its data structures pertaining to
/// the specified already mounted file system.
MNT_RELOAD;
/// Create a snapshot of the file system.
///
/// See [mksnap_ffs(8)](https://www.freebsd.org/cgi/man.cgi?query=mksnap_ffs)
#[cfg(any(target_os = "macos", target_os = "freebsd"))]
MNT_SNAPSHOT;
/// Using soft updates.
#[cfg(any(  
    target_os = "dragonfly",  
    target_os = "freebsd",  
    target_os = "netbsd",  
    target_os = "openbsd"
))]
MNT_SOFTDEP;
/// Directories with the SUID bit set chown new files to their own
/// owner.
#[cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
MNT_SUIDDIR;
/// All I/O to the file system should be done synchronously.
MNT_SYNCHRONOUS;
/// Union with underlying fs.
#[cfg(any(  
    target_os = "macos",  
    target_os = "freebsd",  
    target_os = "netbsd"
))]
MNT_UNION;
/// Indicates that the mount command is being applied to an already
/// mounted file system.
MNT_UPDATE;
/// Check vnode use counts.
#[cfg(target_os = "freebsd")]
MNT_NONBUSY;
}
);

/// The Error type of ['Nmount::nmount'].
///
/// It wraps an ['Errno'], but also may contain an additional message returned
/// by 'nmount(2)'.
#[derive(Debug)]
pub struct NmountError {
    errno: Error,
    errmsg: Option<String>
}
impl NmountError {
    /// Returns the additional error string sometimes generated by `nmount(2)``.
    pub fn errmsg(&self) -> Option<&str> {
        self.errmsg.as_deref()
    }

    /// Returns the inner `Error`.
    pub const fn error(&self) -> Error {
        self.errno
    }

    fn new(error: Error, errmsg: Option<&CStr>) -> Self {
        Self {
            errno: error,
            errmsg: errmsg.map(CStr::to_string_lossy).map(Cow::into_owned)
        }
    }
}

impl std::error::Error for NmountError {}

impl fmt::Display for NmountError {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        if let Some(errmsg) = &self.errmsg {
            write!(f, "{:?}: {}: {}", self.errno, errmsg, self.errno.desc())
        } else {
            write!(f, "{:?}: {}", self.errno, self.errno.desc())
        }
    }
}

impl From<NmountError> for io::Error {
    fn from(err: NmountError) -> Self {
        err.errno.into()
    }
}

/// Result type of `Nmount::nmount`.
pub type NmountResult = std::result::Result<(), NmountError>;

/// Mount a FreeBSD file system.
///
/// The `nmount(2)` system call works similarly to the `mount(8)` program; it
/// takes its options as a series of name-value pairs. Most of the values are
/// strings, as all are of the names. The `Nmount` structure builds up an
/// argument list and then executes the syscall.
///
/// # Examples
///
/// To mount `target` onto `mountpoint` with `nullfs`:
///
/// ```
/// use nix::unistd::Uid;
/// use ::sysctl::CtlValue;
/// if !Uid::current().is_root() & CtlValue::Int(0) == ::sysctl::value("vfs.usermount").unwrap() {
///     return;
/// }
/// use nix::mount::{MntFlags, Nmount, unmount};
/// use std::ffi::CString;
/// use std::ffi::tempdir;
///
/// let mountpoint = tempdir().unwrap();
/// let target = tempdir().unwrap();
///
/// let fstype = CString::new("fstype").unwrap();
/// let nullfs = CString::new("nullfs").unwrap();
/// Nmount::new()
///     .str_opt(fstype, &nullfs)
///     .str_opt_owned("fspath", mountpoint.path().to_str().unwrap())
///     .str_opt_owned("target", target.path().to_str().unwrap())
///     .nmount(MntFlags::empty()).unwrap();
///
/// unmount(mountpoint.path(), MntFlags::empty()).unwrap();
///
/// ```
///
/// # See Also
/// * [`nmount(2)`](https://www.freebsd.org/cgi/man.cgi?query=nmount)
/// * [`nullfs(5)`](https://www.freebsd.org/cgi/man.cgi?query=nullfs)

#[cfg(target_os = "freebsd")]
#[derive(Debug, Default)]
pub struct Nmount<'a> {
    iov: Vec<IoVec<&'a [u8]>>,
    is_owned: Vec<bool>,
}

#[cfg(target_os = "freebsd")]
impl<'a> Nmount<'a> {
    /// Add an opaque mount option.
    ///
    /// Some file systems take binary-valued mount options. They can be set
    /// with this method.
    ///
    /// # Safety
    ///
    /// Unsafe because it will cause `Nmount::nmount` to dereference a raw
    /// pointer. The user is responsible for ensuring that `val` is valid and
/// its lifetime outlives `self`! An easy way to do that is to give the
/// value a larger scope than `name`
///
/// # Examples
///```
/// use libc::c_void;
/// use nix::mount::Nmount;
/// use std::ffi::CString;
/// use std::mem;
///
/// // Note that flags outlives name
/// let mut flags: u32 = 0xdeadbeef;
/// let name = CString::new("flags").unwrap();
/// let p = &mut flags as *mut u32 as *mut c_void;
/// let len = mem::size_of_val(&flags);
/// let mut nmount = Nmount::new();
/// unsafe { nmount.mut_ptr_opt(&name, p, len) };
///```

pub unsafe fn mut_ptr_opt(
    &mut self,  
    name: &'a CStr,  
    val: *mut c_void,  
    len: usize  
) -> &mut Self
{
    self.iov.push(IoVec::from_slice(name.to_bytes_with_nul()));
    self.is_owned.push(false);
    self.iov.push(IoVec::from_raw_parts(val, len));
    self.is_owned.push(false);
    self
}

/// Add a mount option that does not take a value.
///
/// # Examples
///```
/// use nix::mount::Nmount;
/// use std::ffi::CString;
///
/// let read_only = CString::new("ro").unwrap();
/// Nmount::new().null_opt(&read_only);
///```

pub fn null_opt(&mut self, name: &'a CStr) -> &mut Self {
    self.iov.push(IoVec::from_slice(name.to_bytes_with_nul()));
    self.is_owned.push(false);
    self.iov.push(IoVec::from_raw_parts(ptr::null_mut(), 0));
    self.is_owned.push(false);
self
}

/// Add a mount option that does not take a value, but whose name must be
/// owned.
///
/// This has higher runtime cost than ['Nmount::null_opt'], but is useful
/// when the name's lifetime doesn't outlive the `Nmount`, or it's a
different string type than `CStr`.
///
/// # Examples
///```
/// use nix::mount::Nmount;
///
/// let read_only = "ro";
/// let mut nmount: Nmount<static> = Nmount::new();
/// nmount.null_opt_owned(read_only);
///```
///
pub fn null_opt_owned<P: ?Sized + NixPath>(&mut self, name: &P) -> &mut Self
{
    name.with_nix_path(|s| {
        let len = s.to_bytes_with_nul().len();
        self.iov.push(IoVec::from_raw_parts(
            // Must free it later
            s.to_owned().into_raw() as *mut c_void,
            len
        ));
        self.is_owned.push(true);
    }).unwrap();
    self.iov.push(IoVec::from_raw_parts(ptr::null_mut(), 0));
    self.is_owned.push(false);
    self
}

/// Add a mount option as a `CStr`.
///
/// # Examples
///```
/// use nix::mount::Nmount;
/// use std::ffi::CString;
///
/// let fstype = CString::new("fstype").unwrap();
/// let nullfs = CString::new("nullfs").unwrap();
/// Nmount::new()
///     .str_opt(&fstype, &nullfs);
///```
///
pub fn str_opt(
&mut self,
name: &'a CStr,
val: &'a CStr
) -> &mut Self
{
    self.iov.push(IoVec::from_slice(name.to_bytes_with_nul()));
    self.is_owned.push(false);
    self.iov.push(IoVec::from_slice(val.to_bytes_with_nul()));
    self.is_owned.push(false);
    self
}

/// Add a mount option as an owned string.
///
/// This has higher runtime cost than [`Nmount::str_opt`], but is useful
/// when the value's lifetime doesn't outlive the `Nmount`, or it's a
/// different string type than `CStr`.
///
/// # Examples
///```
/// use nix::mount::Nmount;
/// use std::path::Path;
///
/// let mountpoint = Path::new("/mnt");
/// Nmount::new()
///     .str_opt_owned("fspath", mountpoint.to_str().unwrap());
///```
pub fn str_opt_owned<P1, P2>(&mut self, name: &P1, val: &P2) -> &mut Self
where P1: ?Sized + NixPath,
P2: ?Sized + NixPath
{  
    name.with_nix_path(|s| {
        let len = s.to_bytes_with_nul().len();
        self.iov.push(IoVec::from_raw_parts(
            // Must free it later
            s.to_owned().into_raw() as *mut c_void,
            len
        ));
        self.is_owned.push(true);
    }).unwrap();
    val.with_nix_path(|s| {
        let len = s.to_bytes_with_nul().len();
        self.iov.push(IoVec::from_raw_parts(
            // Must free it later
            s.to_owned().into_raw() as *mut c_void,
            len
        ));
        self.is_owned.push(true);
    })
}
// Create a new `Nmount` struct with no options
pub fn new() -> Self {
    Self::default()
}

// Actually mount the file system.
pub fn nmount(&mut self, flags: MntFlags) -> NmountResult {
    // nmount can return extra error information via a "errmsg" return
    // argument.
    const ERRMSG_NAME: &[u8] = b"errmsg\0";
    let mut errmsg = vec![0u8; 255]:
    self.iov.push(IoVec::from_raw_parts(    
        ERRMSG_NAME.as_ptr() as *mut c_void,
        ERRMSG_NAME.len()
    ));
    self.iov.push(IoVec::from_raw_parts(    
        errmsg.as_mut_ptr() as *mut c_void,
        errmsg.len()
    ));

    let niov = self.iov.len() as c_uint;
    let iovp = self.iov.as_mut_ptr() as *mut libc::iovec;
    let res = unsafe {
        libc::nmount(iovp, niov, flags.bits)
    }
    match Errno::result(res) {
        Ok(_) => Ok(()),
        Err(error) => {            
            let errmsg = match errmsg.iter().position(|&x| x == 0) {                
                None => None,
                Some(0) => None,
                Some(n) => {                    
                    let sl = &errmsg[0..n + 1];
                    Some(CStr::from_bytes_with_nul(sl).unwrap())
                }
            }:
            Err(NmountError::new(error, errmsg))
        }
    }
}

#[cfg(target_os = "freebsd")]
impl<'a> Drop for Nmount<'a> {
};
fn drop(&mut self) {
    for (iov, is_owned) in self.iov.iter().zip(self.is_owned.iter()) {
        if *is_owned {
            // Free the owned string. Safe because we recorded ownership,
            // and Nmount does not implement Clone.
            unsafe {
                drop(CString::from_raw(iov.0.iov_base as *mut c_char));
            }
        }
    }
}

/// Unmount the file system mounted at `mountpoint`.
///
/// Useful flags include
/// * `MNT_FORCE` - Unmount even if still in use.
/// * `MNT_BYFSID` - `mountpoint` is not a path, but a file system ID
///   encoded as `FSID:val0:val1`, where `val0` and `val1`
///   are the contents of the `fsid_t val[]` array in decimal.
///   The file system that has the specified file system ID
///   will be unmounted. See
///   
/// pub fn unmount<P>(mountpoint: &P, flags: MntFlags) -> Result<()> where P: ?Sized + NixPath
/// {
///     let res = mountpoint.with_nix_path(|cstr| {
///         unsafe {
///             libc::unmount(cstr.as_ptr(), flags.bits)
///         }
///     })?
///     Errno::result(res).map(drop)
/// }

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use crate:: {
    Error,
    Errno,
    NixPath,
    Result,
    sys::uio::IoVec
};
use libc::{c_char, c_int, c_uint, c_void};
use std::{
    borrow::Cow,
    ffi::{CString, CStr},
    fmt,
    io,
    ptr
};
libc_bitflags!(
    /// Used with `Nmount::nmount`.
    pub struct MntFlags: c_int {
        /// ACL support enabled.
        #![cfg(any(target_os = "netbsd", target_os = "freebsd"))]
        MNT_ACLS;
        /// All I/O to the file system should be done asynchronously.
        MNT_ASYNC;
        /// dir should instead be a file system ID encoded as FSID:val0:val1.
        #![cfg(target_os = "freebsd")]
        MNT_BYFSID;
        /// Force a read-write mount even if the file system appears to be
        /// unclean.
        MNT_FORCE;
        /// GEOM journal support enabled.
        #![cfg(target_os = "freebsd")]
        MNT_GJOURNAL;
        /// MAC support for objects.
        #![cfg(any(target_os = "macos", target_os = "freebsd"))]
        MNT_MULTILABEL;
        /// Disable read clustering.
        #![cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        MNT_NOCLUSTERR;
        /// Disable write clustering.
        #![cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        MNT_NOCLUSTERW;
        /// Enable NFS version 4 ACLs.
        #![cfg(target_os = "freebsd")]
        MNT_NFS4ACLS;
        /// Do not update access times.
        MNT_NOATIME;
        /// Disallow program execution.
        MNT_NOEXEC;
        /// Do not honor setuid or setgid bits on files when executing them.
        MNT_NOSUID;
        /// Do not follow symlinks.
        #![cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        MNT_NOSYMFOLLOW;
        /// Mount read-only.
        MNT_RDONLY;
        /// Causes the vfs subsystem to update its data structures pertaining to
        /// the specified already mounted file system.
        MNT_RELOAD;
        /// Create a snapshot of the file system.
        ///
        /// See [mksnap_ffs(8)](https://www.freebsd.org/cgi/man.cgi?query=mksnap_ffs)
/// The Error type of `[Nmount::nmount`.
///
/// It wraps an `[Errno`], but also may contain an additional message returned
/// by `nmount(2)`.  
#[derive(Debug)]
pub struct NmountError {
    errno: Error,
    errmsg: Option<String>
}

impl NmountError {
    /// Returns the additional error string sometimes generated by `nmount(2)`.
    pub fn errmsg(&self) -> Option<&str> {
        self.errmsg.as_deref()
    }
}
/// Returns the inner [`Error`]
pub fn error(&self) -> Error {
    self.errno
}

fn new(error: Error, errmsg: Option<&CStr>) -> Self {
    Self {
        errno: error,
        errmsg: errmsg.map(CStr::to_string_lossy).map(Cow::into_owned)
    }
}

impl std::error::Error for NmountError {

impl fmt::Display for NmountError {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        if let Some(errmsg) = &self.errmsg {
            write!(f, "{:?}: {}\n{}", self.errno, errmsg, self.errno.desc())
        } else {
            write!(f, "{:?}: {}", self.errno, self.errno.desc())
        }
    }
}

impl From<NmountError> for io::Error {
    fn from(err: NmountError) -> Self {
        err.errno.into()
    }
}

/// Result type of ["Nmount::nmount"].
pub type NmountResult = std::result::Result<(), NmountError>;

/// Mount a FreeBSD file system.
///
/// The `nmount(2)` system call works similarly to the `mount(8)` program; it
/// takes its options as a series of name-value pairs. Most of the values are
/// strings, as are all of the names. The `Nmount` structure builds up an
/// argument list and then executes the syscall.
///
/// # Examples
///
/// # To mount `target` onto `mountpoint` with `nullfs`:
/// ```
/// # use nix::unistd::Uid;
/// # use ::sysctl::CtlValue;
/// ```
/// # if !Uid::current().is_root() && CtlValue::Int(0) == ::sysctl::value("vfs.usermount").unwrap() {
/// #     return;
/// # };
/// use nix::mount::{MntFlags, Nmount, unmount};
/// use std::ffi::CString;
/// use tempfile::tempdir;
///
/// let mountpoint = tempdir().unwrap();
/// let target = tempdir().unwrap();
///
/// let fstype = CString::new("fstype").unwrap();
/// let nullfs = CString::new("nullfs").unwrap();
/// Nmount::new()
///     .str_opt(&fstype, &nullfs)
///     .str_opt_owned("fspath", mountpoint.path().to_str().unwrap())
///     .str_opt_owned("target", target.path().to_str().unwrap())
///     .nmount(MntFlags::empty()).unwrap();
///
/// unmount(mountpoint.path(), MntFlags::empty()).unwrap();
///
/// # See Also
/// * [`nmount(2)`](https://www.freebsd.org/cgi/man.cgi?query=nmount)
/// * [`nullfs(5)`](https://www.freebsd.org/cgi/man.cgi?query=nullfs)

#[cfg(target_os = "freebsd")]
#[derive(Debug, Default)]
pub struct Nmount<'a> {
    iov: Vec<IoVec<&'a [u8]>>,
    is_owned: Vec<bool>,
}

#[cfg(target_os = "freebsd")]
impl<'a> Nmount<'a> {
    /// Add an opaque mount option.
    ///
    /// Some file systems take binary-valued mount options. They can be set
    /// with this method.
    ///
    /// # Safety
    ///
    /// Unsafe because it will cause `Nmount::nmount` to dereference a raw
    /// pointer. The user is responsible for ensuring that `val` is valid and
    /// its lifetime outlives `self`! An easy way to do that is to give the
    /// value a larger scope than `name`
    ///
    /// # Examples
    ///
    /// use libc::c_void;
/// use nix::mount::Nmount;
/// use std::ffi::CString;
/// use std::mem;
///
/// // Note that flags outlives name
/// let mut flags: u32 = 0xdeadbeef;
/// let name = CString::new("flags").unwrap();
/// let p = &mut flags as *mut u32 as *mut c_void;
/// let len = mem::size_of_val(&flags);
/// let mut nmount = Nmount::new();
/// unsafe { nmount.mut_ptr_opt(&name, p, len) };
///```
pub unsafe fn mut_ptr_opt(
    &mut self,
    name: &a CStr,
    val: *mut c_void,
    len: usize
) -> &mut Self {

    self.iov.push(IoVec::from_slice(name.to_bytes_with_nul()));
    self.is_owned.push(false);
    self.iov.push(IoVec::from_raw_parts(val, len));
    self.is_owned.push(false);
    self
}

/// Add a mount option that does not take a value.
///
/// # Examples
///```
/// use nix::mount::Nmount;
/// use std::ffi::CString;
///
/// let read_only = CString::new("ro").unwrap();
/// Nmount::new().null_opt(&read_only);
///```
pub fn null_opt(&mut self, name: &a CStr) -> &mut Self {
    self.iov.push(IoVec::from_slice(name.to_bytes_with_nul()));
    self.is_owned.push(false);
    self.iov.push(IoVec::from_raw_parts(ptr::null_mut(), 0));
    self.is_owned.push(false);
    self
}

/// Add a mount option that does not take a value, but whose name must be
/// owned.
///
/// This has higher runtime cost than `[Nmount::null_opt]`, but is useful
/// when the name’s lifetime doesn’t outlive the `Nmount`, or it’s a
/// different string type than `CStr`.
///
/// # Examples
///
/// use nix::mount::Nmount;
///
/// let read_only = "ro";
/// let mut nmount: Nmount<static> = Nmount::new();
/// nmount.null_opt_owned(read_only);
///
/// pub fn null_opt_owned<P: ?Sized + NixPath>(&mut self, name: &P) -> &mut Self
///
/// name.with_nix_path[s] { [code]
///    let len = s.to_bytes_with_nul().len();
///    self.iov.push(IoVec::from_raw_parts(
///        // Must free it later
///        s.to_owned().into_raw() as *mut c_void,
///        len
///    ));
///    self.is_owned.push(true);
/// }).unwrap();
///    self.iov.push(IoVec::from_raw_parts(ptr::null_mut(), 0));
///    self.is_owned.push(false);
///    self
/// }
///
/// Add a mount option as a `[CStr]`.
///
/// # Examples
///
/// use nix::mount::Nmount;
///
/// use std::ffi::CString;
///
/// let fstype = CString::new("fstype").unwrap();
/// let nullfs = CString::new("nullfs").unwrap();
/// Nmount::new()
///    .str_opt(&fstype, &nullfs);
///
/// pub fn str_opt(&mut self, name: &CStr, val: &CStr) -> &mut Self
///{
///    self.iov.push(IoVec::from_slice(name.to_bytes_with_nul()));
/// Add a mount option as an owned string.
/// This has higher runtime cost than \[
/// \text{'Nmount::str_opt'}, \]
/// but is useful when the value's lifetime doesn't outlive the \text{'Nmount'}, or it's a different string type than \text{'CStr'}.
/// # Examples
/// ```
/// use nix::mount::Nmount;
/// use std::path::Path;
///
/// let mountpoint = Path::new("/mnt");
/// Nmount::new()
///    .str_opt_owned("fspath", mountpoint.to_str().unwrap());
///```

pub fn str_opt_owned<P1, P2>(&mut self, name: &P1, val: &P2) -> &mut Self
where P1: ?Sized + NixPath,
P2: ?Sized + NixPath
{
    name.with_nix_path(|s| {
        let len = s.to_bytes_with_nul().len();
        self.iov.push(IoVec::from_raw_parts("\n            s.to_owned().into_raw() as *mut c_void,
            len
        ));
        self.is_owned.push(true);
    }).unwrap();
    val.with_nix_path(|s| {
        let len = s.to_bytes_with_nul().len();
        self.iov.push(IoVec::from_raw_parts("\n            s.to_owned().into_raw() as *mut c_void,
            len
        ));
        self.is_owned.push(true);
    }).unwrap();
    self
}

pub fn new() -> Self {
    Self::default()
pub fn nmount(&mut self, flags: MntFlags) -> NmountResult {
    // nmount can return extra error information via a "errmsg" return
    // argument.
    const ERRMSG_NAME: &[u8] = b"errmsg0";
    let mut errmsg = vec![0u8; 255];
    self.iov.push(IoVec::from_raw_parts(
        ERRMSG_NAME.as_ptr() as *mut c_void,
        ERRMSG_NAME.len()
    ));
    self.iov.push(IoVec::from_raw_parts(
        errmsg.as_mut_ptr() as *mut c_void,
        errmsg.len()
    ));

    let niov = self.iov.len() as c_uint;
    let iovp = self.iov.as_mut_ptr() as *mut libc::iovec;
    let res = unsafe {
        libc::nmount(iovp, niov, flags.bits)
    }; match Errno::result(res) {
        Ok(_) => Ok(()),
        Err(error) => {
            let errmsg = match errmsg.iter().position(|&x| x == 0) {
                None => None,
                Some(0) => None,
                Some(n) => {
                    let sl = &errmsg[0..n + 1];
                    Some(CStr::from_bytes_with_nul(sl).unwrap())
                }
            }
            Err(NmountError::new(error.into(), errmsg))
        }
    }
}

#[cfg(target_os = "freebsd")]
impl<'a> Drop for Nmount<'a> {
    fn drop(&mut self) {
        for (iov, is_owned) in self.iov.iter().zip(self.is_owned.iter()) {
            if *is_owned {
                // Free the owned string. Safe because we recorded ownership,
                // and Nmount does not implement Clone.
                unsafe {
                    drop(CString::from_raw(iov.0.iov_base as *mut c_char));
                }
            }
        }
    }
}
pub fn unmount<P>(mountpoint: &P, flags: MntFlags) -> Result<()> where P: ?Sized + NixPath {
    let res = mountpoint.with_nix_path(|cstr| {
        unsafe { libc::unmount(cstr.as_ptr(), flags.bits) }
    })?
    Errno::result(res).map(drop)
}

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Name: file-magic
Version: 0.3.0
Summary: (official) libmagic Python bindings
Home-page: https://github.com/file/file
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1.980 dleyna-core 0.6.0-3.el8
1.980.1 Available under license :
No license file was found, but licenses were detected in source scan.

License: LGPLv2

Found in path(s):
* /opt/cola/permits/1204325024_1654486173.2013924/0/dleyna-core-0.6.0-3.el8.src.rpm-cosi-expand-archive-
  4n9oJXCt/dleyna-core.spec

1.981 libcroco 0.6.12 4.el8_2.1
1.981.1 Available under license :
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[This is the first released version of the library GPL. It is
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transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
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Most GNU software, including some libraries, is covered by the ordinary
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license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
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the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
 treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

That's all there is to it!

1.982 libmodman 2.0.1 17.el8
1.982.1 Available under license:

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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

1.983 sil-nuosu-fonts 2.200-2.el8

1.983.1 Available under license:

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* /opt/cola/permits/1283432781_1646721294.08/0/sil-nuosu-fonts-2.200-2.el8.src.rpm-cosi-expand-archive-
  jYV8UcYU/sil-nuosu-fonts.spec

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PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
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README
Nuosu SIL
===========

Thank you for your interest in the Nuosu SIL font.
We hope you find it useful!

Nuosu SIL is released under the SIL Open Font License.
Nuosu SIL is a trademark of SIL International.

See the OFL and OFL-FAQ for details of the SIL Open Font License.
For more details about this project, including changelog, making contributions, and acknowledgements see FONTLOG.
See the website (https://software.sil.org/nuosu/) for further information.

TIPS
====

As this font is distributed at no cost, we are unable to provide a commercial level of personal technical support. The font has, however, been through some testing on various platforms to be sure it works in most situations.

If you do find a problem, please do report it to fonts@sil.org.
We can't guarantee any direct response, but will try to fix reported bugs in future versions.

Many problems can be solved, or at least explained, through an understanding
of the encoding and use of the fonts. Here are some basic hints:

Encoding:
The fonts are encoded according to Unicode, so your application must support Unicode text in order to access letters other than the standard alphabet. Most applications provide basic Unicode support. You will, however, need some way of entering Unicode text into your document.

Keyboarding:
This font does not include any keyboarding helps or utilities. It uses the built-in keyboards of the operating system. You will need to install the appropriate keyboard and input method for the characters of the language you wish to use.

If you want to enter characters that are not supported by any system keyboard, the Keyman program can be helpful. A Keyman keyboard is available at:

https://keyman.com/keyboards/sil_yi

This keyboard package, however, comes with an outdated font and does not support for full range of characters supported by Nuosu SIL.

CONTACT
========

For more information please visit the Nuosu SIL page on SIL International's Computers and Writing systems website:
https://software.sil.org/nuosu/

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OFL FAQ - Frequently Asked Questions about the SIL Open Font License (OFL)
Version 1.1-update5 - April 2017
The OFL FAQ is copyright (c) 2005-2017 SIL International.
(See http://scripts.sil.org/OFL for updates)

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1 USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL

1.1 Can I use the fonts for a book or other print publication, to create logos or other graphics or even to manufacture objects based on their outlines?
Yes. You are very welcome to do so. Authors of fonts released under the OFL allow you to use their font software as such for any kind of design work. No additional license or permission is required, unlike with some other licenses. Some examples of these uses are: logos, posters, business cards, stationery, video titling, signage, t-shirts, personalised fabric, 3D-printed/laser-cut shapes, sculptures, rubber stamps, cookie cutters and lead type.

1.1.1 Does that restrict the license or distribution of that artwork?
No. You remain the author and copyright holder of that newly derived graphic or object. You are simply using an open font in the design process. It is only when you redistribute, bundle or modify the font itself that other conditions of the license have to be respected (see below for more details).

1.1.2 Is any kind of acknowledgement required?
No. Font authors may appreciate being mentioned in your artwork's acknowledgements alongside the name of the font, possibly with a link to their website, but that is not required.

1.2 Can the fonts be included with Free/Libre and Open Source Software collections such as GNU/Linux and BSD distributions and repositories?
Yes! Fonts licensed under the OFL can be freely included alongside other software under FLOSS (Free/Libre and Open Source Software) licenses. Since fonts are typically aggregated with, not merged into, existing software, there is little need to be concerned about incompatibility with existing software licenses. You may also repackaging the fonts and the accompanying components in a .rpm or .deb package (or other similar package formats or installers) and include them in distribution CD/DVDs and online repositories. (Also see section 5.9 about rebuilding from source.)

1.3 I want to distribute the fonts with my program. Does this mean my program also has to be Free/Libre and Open Source Software?
No. Only the portions based on the Font Software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling with software under restricted licensing as well.

1.4 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Original Version and a Modified Version of the fonts. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, games and entertainment software, mobile device applications, etc.

1.5 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.6 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential direct income to distribute their fonts under the OFL. Please honour and respect their contribution!
1.7 What about sharing OFL fonts with friends on a CD, DVD or USB stick?
You are very welcome to share open fonts with friends, family and colleagues through removable media. Just remember to include the full font package, including any copyright notices and licensing information as available in OFL.txt. In the case where you sell the font, it has to come bundled with software.

1.8 Can I host the fonts on a web site for others to use?
Yes, as long as you make the full font package available. In most cases it may be best to point users to the main site that distributes the Original Version so they always get the most recent stable and complete version. See also discussion of web fonts in Section 2.

1.9 Can I host the fonts on a server for use over our internal network?
Yes. If the fonts are transferred from the server to the client computer by means that allow them to be used even if the computer is no longer attached to the network, the full package (copyright notices, licensing information, etc.) should be included.

1.10 Does the full OFL license text always need to accompany the font?
The only situation in which an OFL font can be distributed without the text of the OFL (either in a separate file or in font metadata), is when a font is embedded in a document or bundled within a program. In the case of metadata included within a font, it is legally sufficient to include only a link to the text of the OFL on http://scripts.sil.org/OFL, but we strongly recommend against this. Most modern font formats include metadata fields that will accept the full OFL text, and full inclusion increases the likelihood that users will understand and properly apply the license.

1.11 What do you mean by ‘embedding’? How does that differ from other means of distribution?
By ‘embedding’ we mean inclusion of the font in a document or file in a way that makes extraction (and redistribution) difficult or clearly discouraged. In many cases the names of embedded fonts might also not be obvious to those reading the document, the font data format might be altered, and only a subset of the font - only the glyphs required for the text - might be included. Any other means of delivering a font to another person is considered ‘distribution’, and needs to be accompanied by any copyright notices and licensing information available in OFL.txt.

1.12 So can I embed OFL fonts in my document?
Yes, either in full or a subset. The restrictions regarding font modification and redistribution do not apply, as the font is not intended for use outside the document.

1.13 Does embedding alter the license of the document itself?
No. Referencing or embedding an OFL font in any document does not change the license of the document itself. The requirement for fonts to remain under the OFL does not apply to any document created using the fonts and their derivatives. Similarly, creating any kind of graphic using a font under OFL does not make the resulting artwork subject to the OFL.

1.14 If OFL fonts are extracted from a document in which they are embedded (such as a PDF file), what can be done with them? Is this a risk to author(s)?
The few utilities that can extract fonts embedded in a PDF will typically output limited amounts of outlines - not a complete font. To create a working font from this method is much more difficult and time consuming than finding the source of the original OFL font. So there is little chance that an OFL font would be extracted and redistributed inappropriately through this method. Even so, copyright laws address any misrepresentation of authorship. All Font
Software released under the OFL and marked as such by the author(s) is intended to remain under this license regardless of the distribution method, and cannot be redistributed under any other license. We strongly discourage any font extraction - we recommend directly using the font sources instead - but if you extract font outlines from a document, please be considerate: respect the work of the author(s) and the licensing model.

1.15 What about distributing fonts with a document? Within a compressed folder structure? Is it distribution, bundling or embedding?
Certain document formats may allow the inclusion of an unmodified font within their file structure which may consist of a compressed folder containing the various resources forming the document (such as pictures and thumbnails). Including fonts within such a structure is understood as being different from embedding but rather similar to bundling (or mere aggregation) which the license explicitly allows. In this case the font is conveyed unchanged whereas embedding a font usually transforms it from the original format. The OFL does not allow anyone to extract the font from such a structure to then redistribute it under another license. The explicit permission to redistribute and embed does not cancel the requirement for the Font Software to remain under the license chosen by its author(s). Even if the font travels inside the document as one of its assets, it should not lose its authorship information and licensing.

1.16 What about ebooks shipping with open fonts?
The requirements differ depending on whether the fonts are linked, embedded or distributed (bundled or aggregated). Some ebook formats use web technologies to do font linking via @font-face, others are designed for font embedding, some use fonts distributed with the document or reading software, and a few rely solely on the fonts already present on the target system. The license requirements depend on the type of inclusion as discussed in 1.15.

1.17 Can Font Software released under the OFL be subject to URL-based access restrictions methods or DRM (Digital Rights Management) mechanisms?
Yes, but these issues are out-of-scope for the OFL. The license itself neither encourages their use nor prohibits them since such mechanisms are not implemented in the components of the Font Software but through external software. Such restrictions are put in place for many different purposes corresponding to various usage scenarios. One common example is to limit potentially dangerous cross-site scripting attacks. However, in the spirit of libre/open fonts and unrestricted writing systems, we strongly encourage open sharing and reuse of OFL fonts, and the establishment of an environment where such restrictions are unnecessary. Note that whether you wish to use such mechanisms or you prefer not to, you must still abide by the rules set forth by the OFL when using fonts released by their authors under this license. Derivative fonts must be licensed under the OFL, even if they are part of a service for which you charge fees and/or for which access to source code is restricted. You may not sell the fonts on their own - they must be part of a larger software package, bundle or subscription plan. For example, even if the OFL font is distributed in a software package or via an online service using a DRM mechanism, the user would still have the right to extract that font, use, study, modify and redistribute it under the OFL.

1.18 I've come across a font released under the OFL. How can I easily get more information about the Original Version? How can I know where it stands compared to the Original Version or other Modified Versions?
Consult the copyright statement(s) in the license for ways to contact the original authors. Consult the FONTLOG (see section 6 for more details and examples) for information on how the font differs from the Original Version, and get in touch with the various contributors via the information in the acknowledgement section. Please consider using the Original Versions of the fonts whenever possible.

1.19 What do you mean in condition 4 of the OFL’s permissions and conditions? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?
The intent is that the goodwill and reputation of the author(s) should not be used in a way that makes it sound like
the original author(s) endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the author(s) in a listing of software features, or to promote a Modified Version on a web site by saying "designed by ...". However, it would be appropriate to acknowledge the author(s) if your software package has a list of people who deserve thanks. We realize that this can seem to be a grey area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the author(s) it is allowed, but if it primarily benefits other parties, or could reflect poorly on the author(s), then it is not.

1.20 I'm writing a small app for mobile platforms, do I need to include the whole package?
If you bundle a font under the OFL with your mobile app you must comply with the terms of the license. At a minimum you must include the copyright statement, the license notice and the license text. A mention of this information in your About box or Changelog, with a link to where the font package is from, is good practice, and the extra space needed to carry these items is very small. You do not, however, need to include the full contents of the font package - only the fonts you use and the copyright and license that apply to them. For example, if you only use the regular weight in your app, you do not need to include the italic and bold versions.

1.21 What about including OFL fonts by default in my firmware or dedicated operating system?
Many such systems are restricted and turned into appliances so that users cannot study or modify them. Using open fonts to increase quality and language coverage is a great idea, but you need to be aware that if there is a way for users to extract fonts you cannot legally prevent them from doing that. The fonts themselves, including any changes you make to them, must be distributed under the OFL even if your firmware has a more restrictive license. If you do transform the fonts and change their formats when you include them in your firmware you must respect any names reserved by the font authors via the RFN mechanism and pick your own font name. Alternatively if you directly add a font under the OFL to the font folder of your firmware without modifying or optimizing it you are simply bundling the font like with any other software collection, and do not need to make any further changes.

1.22 Can I make and publish CMS themes or templates that use OFL fonts? Can I include the fonts themselves in the themes or templates? Can I sell the whole package?
Yes, you are very welcome to integrate open fonts into themes and templates for your preferred CMS and make them more widely available. Remember that you can only sell the fonts and your CMS add-on as part of a software bundle. (See 1.4 for details and examples about selling bundles).

1.23 Can OFL fonts be included in services that deliver fonts to the desktop from remote repositories? Even if they contain both OFL and non-OFL fonts?
Yes. Some foundries have set up services to deliver fonts to subscribers directly to desktops from their online repositories; similarly, plugins are available to preview and use fonts directly in your design tool or publishing suite. These services may mix open and restricted fonts in the same channel, however they should make a clear distinction between them to users. These services should also not hinder users (such as through DRM or obfuscation mechanisms) from extracting and using the OFL fonts in other environments, or continuing to use OFL fonts after subscription terms have ended, as those uses are specifically allowed by the OFL.

1.24 Can services that provide or distribute OFL fonts restrict my use of them?
No. The terms of use of such services cannot replace or restrict the terms of the OFL, as that would be the same as distributing the fonts under a different license, which is not allowed. You are still entitled to use, modify and redistribute them as the original authors have intended outside of the sole control of that particular distribution channel. Note, however, that the fonts provided by these services may differ from the Original Versions.

2 USING OFL FONTS FOR WEBPAGES AND ONLINE WEB FONT SERVICES
NOTE: This section often refers to a separate paper on 'Web Fonts & RFNs'. This is available at http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.1 Can I make webpages using these fonts?
Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended. Your three best options are:
- referring directly in your stylesheet to open fonts which may be available on the user's system
- providing links to download the full package of the font - either from your own website or from elsewhere - so users can install it themselves
- using @font-face to distribute the font directly to browsers. This is recommended and explicitly allowed by the licensing model because it is distribution. The font file itself is distributed with other components of the webpage. It is not embedded in the webpage but referenced through a web address which will cause the browser to retrieve and use the corresponding font to render the webpage (see 1.11 and 1.15 for details related to embedding fonts into documents). As you take advantage of the @font-face cross-platform standard, be aware that web fonts are often tuned for a web environment and not intended for installation and use outside a browser. The reasons in favour of using web fonts are to allow design of dynamic text elements instead of static graphics, to make it easier for content to be localized and translated, indexed and searched, and all this with cross-platform open standards without depending on restricted extensions or plugins. You should check the CSS cascade (the order in which fonts are being called or delivered to your users) when testing.

2.2 Can I make and use WOFF (Web Open Font Format) versions of OFL fonts?
Yes, but you need to be careful. A change in font format normally is considered modification, and Reserved Font Names (RFNs) cannot be used. Because of the design of the WOFF format, however, it is possible to create a WOFF version that is not considered modification, and so would not require a name change. You are allowed to create, use and distribute a WOFF version of an OFL font without changing the font name, but only if:
- the original font data remains unchanged except for WOFF compression, and
- WOFF-specific metadata is either omitted altogether or present and includes, unaltered, the contents of all equivalent metadata in the original font.

If the original font data or metadata is changed, or the WOFF-specific metadata is incomplete, the font must be considered a Modified Version, the OFL restrictions would apply and the name of the font must be changed: any RFNs cannot be used and copyright notices and licensing information must be included and cannot be deleted or modified. You must come up with a unique name - we recommend one corresponding to your domain or your particular web application. Be aware that only the original author(s) can use RFNs. This is to prevent collisions between a derivative tuned to your audience and the original upstream version and so to reduce confusion.

Please note that most WOFF conversion tools and online services do not meet the two requirements listed above, and so their output must be considered a Modified Version. So be very careful and check to be sure that the tool or service you're using is compressing unchanged data and completely and accurately reflecting the original font metadata.

2.3 What about other web font formats such as EOT/EOTLite/CWT/etc.?
In most cases these formats alter the original font data more than WOFF, and do not completely support appropriate metadata, so their use must be considered modification and RFNs may not be used. However, there may be certain formats or usage scenarios that may allow the use of RFNs. See http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.4 Can I make OFL fonts available through web font online services?
Yes, you are welcome to include OFL fonts in online web font services as long as you properly meet all the conditions of the license. The origin and open status of the font should be clear among the other fonts you are hosting. Authorship, copyright notices and license information must be sufficiently visible to your users or subscribers so they know where the font comes from and the rights granted by the author(s). Make sure the font file contains the needed copyright notice(s) and licensing information in its metadata. Please double-check the accuracy of every field to prevent contradictory information. Other font formats, including EOT/EOTLite/CWT and superior alternatives like WOFF, already provide fields for this information. Remember that if you modify the font within your library or convert it to another format for any reason the OFL restrictions apply and you need to change the names accordingly. Please respect the author's wishes as expressed in the OFL and do not misrepresent original designers and their work. Don't lump quality open fonts together with dubious freeware or public domain fonts. Consider how you can best work with the original designers and foundries, support their efforts and generate goodwill that will benefit your service. (See 1.17 for details related to URL-based access restrictions methods or DRM mechanisms).

2.5 Some web font formats and services provide ways of "optimizing" the font for a particular website or web application; is that allowed?
Yes, it is permitted, but remember that these optimized versions are Modified Versions and so must follow OFL requirements like appropriate renaming. Also you need to bear in mind the other important parameters beyond compression, speed and responsiveness: you need to consider the audience of your particular website or web application, as choosing some optimization parameters may turn out to be less than ideal for them. Subsetting by removing certain glyphs or features may seriously limit functionality of the font in various languages that your users expect. It may also introduce degradation of quality in the rendering or specific bugs on the various target platforms compared to the original font from upstream. In other words, remember that one person's optimized font may be another person's missing feature. Various advanced typographic features (OpenType, Graphite or AAT) are also available through CSS and may provide the desired effects without the need to modify the font.

2.6 Is subsetting a web font considered modification?
Yes. Removing any parts of the font when delivering a web font to a browser, including unused glyphs and smart font code, is considered modification. This is permitted by the OFL but would not normally allow the use of RFNs. Some newer subsetting technologies may be able to subset in a way that allows users to effectively have access to the complete font, including smart font behaviour. See 2.8 and http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.7 Are there any situations in which a modified web font could use RFNs?
Yes. If a web font is optimized only in ways that preserve Functional Equivalence (see 2.8), then it may use RFNs, as it reasonably represents the Original Version and respects the intentions of the author(s) and the main purposes of the RFN mechanism (avoids collisions, protects authors, minimizes support, encourages derivatives). However this is technically very difficult and often impractical, so a much better scenario is for the web font service or provider to sign a separate agreement with the author(s) that allows the use of RFNs for Modified Versions.

2.8 How do you know if an optimization to a web font preserves Functional Equivalence?
Functional Equivalence is described in full in the 'Web fonts and RFNs' paper at http://scripts.sil.org/OFL_web_fonts_and_RFNs, in general, an optimized font is deemed to be Functionally Equivalent (FE) to the Original Version if it:

- Supports the same full character inventory. If a character can be properly displayed using the Original Version, then that same character, encoded correctly on a web page, will display properly.
- Provides the same smart font behavior. Any dynamic shaping behavior that works with the Original Version should work when optimized, unless the browser or environment does not support it. There does not need to be
guaranteed support in the client, but there should be no forced degradation of smart font or shaping behavior, such as the removal or obfuscation of OpenType, Graphite or AAT tables.
- Presents text with no obvious degradation in visual quality. The lettershapes should be equally (or more) readable, within limits of the rendering platform.
- Preserves original author, project and license metadata. At a minimum, this should include: Copyright and authorship; The license as stated in the Original Version, whether that is the full text of the OFL or a link to the web version; Any RFN declarations; Information already present in the font or documentation that points back to the Original Version, such as a link to the project or the author's website.

If an optimized font meets these requirements, and so is considered to be FE, then it's very likely that the original author would feel that the optimized font is a good and reasonable equivalent. If it falls short of any of these requirements, the optimized font does not reasonably represent the Original Version, and so should be considered to be a Modified Version. Like other Modified Versions, it would not be allowed to use any RFNs and you simply need to pick your own font name.

2.9 Isn't use of web fonts another form of embedding?
No. Unlike embedded fonts in a PDF, web fonts are not an integrated part of the document itself. They are not specific to a single document and are often applied to thousands of documents around the world. The font data is not stored alongside the document data and often originates from a different location. The ease by which the web fonts used by a document may be identified and downloaded for desktop use demonstrates that they are philosophically and technically separate from the web pages that specify them. See http://scripts.sil.org/OFL_web_fonts_and_RFNs

2.10 So would it be better to not use RFNs at all if you want your font to be distributed by a web fonts service? No. Although the OFL does not require authors to use RFNs, the RFN mechanism is an important part of the OFL model and completely compatible with web font services. If that web font service modifies the fonts, then the best solution is to sign a separate agreement for the use of any RFNs. It is perfectly valid for an author to not declare any RFNs, but before they do so they need to fully understand the benefits they are giving up, and the overall negative effect of allowing many different versions bearing the same name to be widely distributed. As a result, we don't generally recommend it.

2.11 What should an agreement for the use of RFNs say? Are there any examples?
There is no prescribed format for this agreement, as legal systems vary, and no recommended examples. Authors may wish to add specific clauses to further restrict use, require author review of Modified Versions, establish user support mechanisms or provide terms for ending the agreement. Such agreements are usually not public, and apply only to the main parties. However, it would be very beneficial for web font services to clearly state when they have established such agreements, so that the public understands clearly that their service is operating appropriately.

See the separate paper on 'Web Fonts & RFNs' for in-depth discussion of issues related to the use of RFNs for web fonts. This is available at http://scripts.sil.org/OFL_web_fonts_and_RFNs

3 MODIFYING OFL-LICENSED FONTS

3.1 Can I change the fonts? Are there any limitations to what things I can and cannot change?
You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you are not allowed to remove the copyright statement(s) from the font, but you could put additional information into it that covers your contribution. See the placeholders in the OFL header template for recommendations on where to add your own statements. (Remember that, when authors have reserved names via the RFN mechanism,
you need to change the internal names of the font to your own font name when making your modified version even if it is just a small change.)

3.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

3.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs or OpenType/Graphite/AAT code, can I sell the enhanced font?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

3.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling the font, but you will be making a valuable contribution to the community. Please remember how you have benefited from the contributions of others.

3.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use?
No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way beyond what the OFL permits and requires. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefited from the contributions of others.

3.6 Do I have to make any derivative fonts (including extended source files, build scripts, documentation, etc.) publicly available?
No, but please consider sharing your improvements with others. You may find that you receive in return more than what you gave.

3.7 If a trademark is claimed in the OFL font, does that trademark need to remain in modified fonts?
Yes. Any trademark notices must remain in any derivative fonts to respect trademark laws, but you may add any additional trademarks you claim, officially registered or not. For example if an OFL font called "Foo" contains a notice that "Foo is a trademark of Acme", then if you rename the font to "Bar" when creating a Modified Version, the new trademark notice could say "Foo is a trademark of Acme Inc. - Bar is a trademark of Roadrunner Technologies Ltd.". Trademarks work alongside the OFL and are not subject to the terms of the licensing agreement. The OFL does not grant any rights under trademark law. Bear in mind that trademark law varies from country to country and that there are no international trademark conventions as there are for copyright. You may need to significantly invest in registering and defending a trademark for it to remain valid in the countries you are interested in. This may be costly for an individual independent designer.

3.8 If I commit changes to a font (or publish a branch in a DVCS) as part of a public open source software project, do I have to change the internal font names?
Only if there are declared RFNs. Making a public commit or publishing a public branch is effectively redistributing your modifications, so any change to the font will require that you do not use the RFNs. Even if there are no RFNs,
it may be useful to change the name or add a suffix indicating that a particular version of the font is still in development and not released yet. This will clearly indicate to users and fellow designers that this particular font is not ready for release yet. See section 5 for more details.

4 LICENSING YOUR ORIGINAL FONTS UNDER THE OFL

4.1 Can I use the SIL OFL for my own fonts?
Yes! We heartily encourage everyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom along with enough artistic integrity protection for the work of the authors as well as clear rules for other contributors and those who redistribute the fonts. The licensing model is used successfully by various organisations, both for-profit and not-for-profit, to release fonts of varying levels of scope and complexity.

4.2 What do I have to do to apply the OFL to my font?
If you want to release your fonts under the OFL, we recommend you do the following:

4.2.1 Put your copyright and Reserved Font Names information at the beginning of the main OFL.txt file in place of the dedicated placeholders (marked with the <> characters). Include this file in your release package.

4.2.2 Put your copyright and the OFL text with your chosen Reserved Font Name(s) into your font files (the copyright and license fields). A link to the OFL text on the OFL web site is an acceptable (but not recommended) alternative. Also add this information to any other components (build scripts, glyph databases, documentation, test files, etc). Accurate metadata in your font files is beneficial to you as an increasing number of applications are exposing this information to the user. For example, clickable links can bring users back to your website and let them know about other work you have done or services you provide. Depending on the format of your fonts and sources, you can use template human-readable headers or machine-readable metadata. You should also double-check that there is no conflicting metadata in the font itself contradicting the license, such as the fstype bits in the os2 table or fields in the name table.

4.2.3 Write an initial FONTLOG.txt for your font and include it in the release package (see Section 6 and Appendix A for details including a template).

4.2.4 Include the relevant practical documentation on the license by adding the current OFL-FAQ.txt file in your package.

4.2.5 If you wish you can use the OFL graphics (http://scripts.sil.org/OFL_logo) on your website.

4.3 Will you make my font OFL for me?
We won't do the work for you. We can, however, try to answer your questions, unfortunately we do not have the resources to review and check your font packages for correct use of the OFL. We recommend you turn to designers, foundries or consulting companies with experience in doing open font design to provide this service to you.

4.4 Will you distribute my OFL font for me?
No, although if the font is of sufficient quality and general interest we may include a link to it on our partial list of OFL fonts on the OFL web site. You may wish to consider other open font catalogs or hosting services, such as the Unifont Font Guide (http://unifont.org/fontguide), The League of Movable Type (http://thелеagueofmovabletype.com) or the Open Font Library (http://openfontlibrary.org/), which despite the name
has no direct relationship to the OFL or SIL. We do not endorse any particular catalog or hosting service - it is your responsibility to determine if the service is right for you and if it treats authors with fairness.

4.5 Why should I use the OFL for my fonts?
- to meet needs for fonts that can be modified to support lesser-known languages
- to provide a legal and clear way for people to respect your work but still use it (and reduce piracy)
- to involve others in your font project
- to enable your fonts to be expanded with new weights and improved writing system/language support
- to allow more technical font developers to add features to your design (such as OpenType, Graphite or AAT support)
- to renew the life of an old font lying on your hard drive with no business model
- to allow your font to be included in Libre Software operating systems like Ubuntu
- to give your font world status and wide, unrestricted distribution
- to educate students about quality typeface and font design
- to expand your test base and get more useful feedback
- to extend your reach to new markets when users see your metadata and go to your website
- to get your font more easily into one of the web font online services
- to attract attention for your commercial fonts
- to make money through web font services
- to make money by bundling fonts with applications
- to make money adjusting and extending existing open fonts
- to get a better chance that foundations/NGOs/charities/companies who commission fonts will pick you
- to be part of a sharing design and development community
- to give back and contribute to a growing body of font sources

5 CHOOSING RESERVED FONT NAMES

5.1 What are Reserved Font Names?
These are font names, or portions of font names, that the author has chosen to reserve for use only with the Original Version of the font, or for Modified Version(s) created by the original author.

5.2 Why can't I use the Reserved Font Names in my derivative font names? I'd like people to know where the design came from.
The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Names ensure that the only fonts that have the original names are the unmodified Original Versions. This allows designers to maintain artistic integrity while allowing collaboration to happen. It eliminates potential confusion and name conflicts. When choosing a name, be creative and avoid names that reuse almost all the same letters in the same order or sound like the original. It will help everyone if Original Versions and Modified Versions can easily be distinguished from one another and from other derivatives. Any substitution and matching mechanism is outside the scope of the license.

5.3 What do you mean by "primary name as presented to the user"? Are you referring to the font menu name?
Yes, this applies to the font menu name and other mechanisms that specify a font in a document. It would be fine, however, to keep a text reference to the original fonts in the description field, in your modified source file or in documentation provided alongside your derivative as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the
Copyright Holder(s) allow(s) it through a separate agreement). Users who install derivatives (Modified Versions) on their systems should not see any of the original Reserved Font Names in their font menus, for example. Again, this is to ensure that users are not confused and do not mistake one font for another and so expect features only another derivative or the Original Version can actually offer.

5.4 Am I not allowed to use any part of the Reserved Font Names?
You may not use individual words from the Reserved Font Names, but you would be allowed to use parts of words, as long as you do not use any word from the Reserved Font Names entirely. We do not recommend using parts of words because of potential confusion, but it is allowed. For example, if "Foobar" was a Reserved Font Name, you would be allowed to use "Foo" or "bar", although we would not recommend it. Such an unfortunate choice would confuse the users of your fonts as well as make it harder for other designers to contribute.

5.5 So what should I, as an author, identify as Reserved Font Names?
Original authors are encouraged to name their fonts using clear, distinct names, and only declare the unique parts of the name as Reserved Font Names. For example, the author of a font called "Foobar Sans" would declare "Foobar" as a Reserved Font Name, but not "Sans", as that is a common typographical term, and may be a useful word to use in a derivative font name. Reserved Font Names should also be single words for simplicity and legibility. A font called "Flowing River" should have Reserved Font Names "Flowing" and "River", not "Flowing River". You also need to be very careful about reserving font names which are already linked to trademarks (whether registered or not) which you do not own.

5.6 Do I, as an author, have to identify any Reserved Font Names?
No. RFNs are optional and not required, but we encourage you to use them. This is primarily to avoid confusion between your work and Modified Versions. As an author you can release a font under the OFL and not declare any Reserved Font Names. There may be situations where you find that using no RFNs and letting your font be changed and modified - including any kind of modification - without having to change the original name is desirable. However you need to be fully aware of the consequences. There will be no direct way for end-users and other designers to distinguish your Original Version from many Modified Versions that may be created. You have to trust whoever is making the changes and the optimizations to not introduce problematic changes. The RFNs you choose for your own creation have value to you as an author because they allow you to maintain artistic integrity and keep some control over the distribution channel to your end-users. For discussion of RFNs and web fonts see section 2.

5.7 Are any names (such as the main font name) reserved by default?
No. That is a change to the license as of version 1.1. If you want any names to be Reserved Font Names, they must be specified after the copyright statement(s).

5.8 Is there any situation in which I can use Reserved Font Names for a Modified Version?
The Copyright Holder(s) can give certain trusted parties the right to use any of the Reserved Font Names through separate written agreements. For example, even if "Foobar" is a RFN, you could write up an agreement to give company "XYZ" the right to distribute a modified version with a name that includes "Foobar". This allows for freedom without confusion. The existence of such an agreement should be made as clear as possible to downstream users and designers in the distribution package and the relevant documentation. They need to know if they are a party to the agreement or not and what they are practically allowed to do or not even if all the details of the agreement are not public.

5.9 Do font rebuilds require a name change? Do I have to change the name of the font when my packaging workflow includes a full rebuild from source?
Yes, all rebuilds which change the font data and the smart code are Modified Versions and the requirements of the
OFL apply: you need to respect what the Author(s) have chosen in terms of Reserved Font Names. However if a package (or installer) is simply a wrapper or a compressed structure around the final font - leaving them intact on the inside - then no name change is required. Please get in touch with the author(s) and copyright holder(s) to inquire about the presence of font sources beyond the final font file(s) and the recommended build path. That build path may very well be non-trivial and hard to reproduce accurately by the maintainer. If a full font build path is made available by the upstream author(s) please be aware that any regressions and changes you may introduce when doing a rebuild for packaging purposes is your own responsibility as a package maintainer since you are effectively creating a separate branch. You should make it very clear to your users that your rebuilt version is not the canonical one from upstream.

5.10 Can I add other Reserved Font Names when making a derivative font?
Yes. List your additional Reserved Font Names after your additional copyright statement, as indicated with example placeholders at the top of the OFL.txt file. Be sure you do not remove any existing RFNs but only add your own. RFN statements should be placed next to the copyright statement of the relevant author as indicated in the OFL.txt template to make them visible to designers wishing to make their separate version.

6 ABOUT THE FONTLOG

6.1 What is this FONTLOG thing exactly?
It has three purposes: 1) to provide basic information on the font to users and other designers and developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge authors and other contributors. Please use it!

6.2 Is the FONTLOG required?
It is not a requirement of the license, but we strongly recommend you have one.

6.3 Am I required to update the FONTLOG when making Modified Versions?
No, but users, designers and other developers might get very frustrated with you if you don't. People need to know how derivative fonts differ from the original, and how to take advantage of the changes, or build on them. There are utilities that can help create and maintain a FONTLOG, such as the FONTLOG support in FontForge.

6.4 What should the FONTLOG look like?
It is typically a separate text file (FONTLOG.txt), but can take other formats. It commonly includes these four sections:

- brief header describing the FONTLOG itself and name of the font family
- Basic Font Information - description of the font family, purpose and breadth
- ChangeLog - chronological listing of changes
- Acknowledgements - list of authors and contributors with contact information

It could also include other sections, such as: where to find documentation, how to make contributions, information on contributing organizations, source code details, and a short design guide. See Appendix A for an example FONTLOG.

7 MAKING CONTRIBUTIONS TO OFL PROJECTS
7.1 Can I contribute work to OFL projects?
In many cases, yes. It is common for OFL fonts to be developed by a team of people who welcome contributions from the wider community. Contact the original authors for specific information on how to participate in their projects.

7.2 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back in response to what you've received. Your contributions and improvements to the fonts and other components could be a tremendous help and would encourage others to contribute as well and 'give back'. You will then benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that clearly when you contribute.

7.3 I've made some very nice improvements to the font. Will you consider adopting them and putting them into future Original Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes - the use of smart source revision control systems like subversion, mercurial, git or bzr is a good idea. Please follow the recommendations given by the author(s) in terms of preferred source formats and configuration parameters for sending contributions. If this is not indicated in a FONTLOG or other documentation of the font, consider asking them directly. Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them) or improved hinting. Keep in mind that some kinds of changes (esp. hinting) may be technically difficult to integrate.

7.4 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Original Version.

8 ABOUT THE LICENSE ITSELF

8.1 I see that this is version 1.1 of the license. Will there be later changes?
Version 1.1 is the first minor revision of the OFL. We are confident that version 1.1 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder(s) can re-release the font under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

8.2 Does this license restrict the rights of the Copyright Holder(s)?
No. The Copyright Holder(s) still retain(s) all the rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder(s) may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version under a different license. They may also choose to release the same font under both the OFL and some other license. Only the Copyright Holder(s) can do this, and doing so does not change the terms of the OFL as it applies to that font.

8.3 Is the OFL a contract or a license?
The OFL is a worldwide license based on international copyright agreements and conventions. It is not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.

8.4 I really like the terms of the OFL, but want to change it a little. Am I allowed to take ideas and actual wording from the OFL and put them into my own custom license for distributing my fonts?

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Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (and contact information) is at: http://scripts.sil.org/OFL

APPENDIX A - FONTLOG EXAMPLE

Here is an example of the recommended format for a FONTLOG, although other formats are allowed.

-----

FONTLOG for the GlobalFontFamily fonts

This file provides detailed information on the GlobalFontFamily Font Software. This information should be distributed along with the GlobalFontFamily fonts and any derivative works.

Basic Font Information

GlobalFontFamily is a Unicode typeface family that supports all languages that use the Latin script and its variants, and could be expanded to support other scripts.
NewWorldFontFamily is based on the GlobalFontFamily and also supports Greek, Hebrew, Cyrillic and Armenian.

More specifically, this release supports the following Unicode ranges...
This release contains...
Documentation can be found at...
To contribute to the project...

ChangeLog

10 December 2010 (Fred Foobar) GlobalFontFamily-devel version 1.4
- fix new build and testing system (bug #123456)

1 August 2008 (Tom Parker) GlobalFontFamily version 1.2.1
- Tweaked the smart font code (Branch merged with trunk version)
- Provided improved build and debugging environment for smart behaviours

7 February 2007 (Pat Johnson) NewWorldFontFamily Version 1.3
- Added Greek and Cyrillic glyphs

7 March 2006 (Fred Foobar) NewWorldFontFamily Version 1.2
- Tweaked contextual behaviours

1 Feb 2005 (Jane Doe) NewWorldFontFamily Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as "NewWorldFontFamily"

1 Jan 2005 (Joe Smith) GlobalFontFamily Version 1.0
- Initial release

Acknowledgements

If you make modifications be sure to add your name (N), email (E), web-address (if you have one) (W) and description (D). This list is in alphabetical order.

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes
N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org

D: Designer - Greek & Cyrillic glyphs based on Roman design
N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts

D: Engineer - original smart font code
N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org

D: Designer - original Roman glyphs

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 jYV8UcYU/NuosuSIL-2.200.tar.xz-cosi-expand-archive-hno5TbNm/NuosuSIL-2.200/OFL-FAQ.txt

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The End

1.986 webrtc-audio-processing 0.3-9.el8
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- common_audio/signal_processing/spl_sqrt_floor_arm.S
- modules/audio_coding/codecs/g711/main/source/g711.c
- modules/audio_coding/codecs/g711/main/source/g711.h
- modules/audio_coding/codecs/g722/main/source/g722_decode.c
- modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
- modules/audio_coding/codecs/g722/main/source/g722_encode.c
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common_audio/signal_processing/spl_sqrt_floor_arm.S

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* *
* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message -----
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

---------------------------------------------------------------
Files:
modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

License:
/*
* SpanDSP - a series of DSP components for telephony
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* g711.h - In line A-law and u-law conversion routines
*/
Written by Steve Underwood <steveu@coppice.org>

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modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
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* 
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* 
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modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

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/*
* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
* This program uses the PortAudio Portable Audio Library.
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 */

/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
 * This program uses the PortAudio Portable Audio Library.
 * For more information see: http://www.portaudio.com
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common_audio/fft4g.c
modules/audio_processing/aec/aec_rdft.c

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Source:

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1.987 spring-jdbc 4.1.5.RELEASE

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *
 * This package and related packages are discussed in Chapter 9 of
 * by Rod Johnson (Wrox, 2002).
 */

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/**
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
* [@link OracleLobHandler]; most other databases should be able to work
* with the provided [@link DefaultLobHandler].
*
* Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
*
* Most databases/drivers should be able to work with [@link DefaultLobHandler],
* which by default delegates to JDBC's direct accessor methods, avoiding the
* [@link DefaultLobHandler] can also be configured to access LOBs using
* [@code PreparedStatement.setBlob/setClob] (e.g. for PostgreSQL), through
* setting the [@link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.
*
* Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* [@link OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g+ JDBC driver will work with [@link DefaultLobHandler]
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use [@link OracleLobHandler] at all anymore.
*
* Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
* <ul>
* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use {@link DefaultLobHandler},
* potentially with {@code streamAsLob=true} if your database driver requires that
* hint when populating a LOB field. Fall back to {@code createTemporaryLob=true}
* if you happen to run into LOB size limitations with your (Oracle) database setup.
* <li><b>Oracle 10g driver:</b> Use {@link DefaultLobHandler} with standard setup.
* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
* DefaultLobHandler should work with standard setup out of the box. Alternatively,
* consider using the proprietary {@link OracleLobHandler} (see below).
* <li><b>Oracle 9i driver:</b> Use {@link OracleLobHandler} with a connection-pool-specific
* { @link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor}.<p>
* <li><b>PostgreSQL:</b> Configure { @link DefaultLobHandler} with { @code wrapAsLob=true},
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain { @link DefaultLobHandler}.
* </ul>
* @author Juergen Hoeller  
* @since 23.12.2003  
* @see DefaultLobHandler  
* @see OracleLobHandler  
* @see java.sql.ResultSet#getBlob  
* @see java.sql.ResultSet#getClob  
* @see java.sql.ResultSet#getBytes  
* @see java.sql.ResultSet#getBinaryStream  
* @see java.sql.ResultSet#getString  
* @see java.sql.ResultSet#getAsciiStream  
* @see java.sql.ResultSet#getCharacterStream
* */

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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
ar/jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
ar/jar/org/springframework/jdbc/core/simple/ParameterizedRowMapper.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
ar/jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
ar/jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
ar/jar/org/springframework/jdbc/object/MappingSqlQuery.java
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ar/jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
ar/jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java

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  jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java

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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4.1.5-release-sources-3.jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4.1.5-release-sources-3.jar/org/springframework/jdbc/core/SimpleJdbcCallOperations.java
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4.1.5-release-sources-3.jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4.1.5-release-sources-3.jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4.1.5-release-sources-3.jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
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 */
/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
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 */
/**
 * Strategy interface for translating between {@link SQLException SQLExceptions}
 * and Spring's data access strategy-agnostic {@link DataAccessException}
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
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  jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
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  jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/SqlTypeValue.java
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 */
/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */
/**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never { @code null })
 */

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/**
 * {@link LobHandler} implementation for Oracle databases. Uses proprietary API
 * to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB} instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * <p>While most databases are able to work with {@link DefaultLobHandler},
 * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
 * Blob/Clob instances created via its own proprietary BLOB/CLOB API,
 * and additionally doesn't accept large streams for PreparedStatement's
 * corresponding setter methods. Therefore, you need to use a strategy like
 * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
 * (which still supports access to Oracle 9i databases).
 *
 * <p><b>NOTE: As of Oracle 10.2, {@link DefaultLobHandler} should work equally
 * well out of the box. On Oracle 11g, JDBC 4.0 based options such as
 * {@link DefaultLobHandler#setStreamAsLob} and {@link DefaultLobHandler#setCreateTemporaryLob}
 * are available as well, rendering this proprietary OracleLobHandler obsolete.</b>
 * Also, consider upgrading to a new driver even when accessing an older database.
 * See the {@link LobHandler} interface javadoc for a summary of recommendations.
 *
 * <p>Needs to work on a native JDBC Connection, to be able to cast it to
 * {@code oracle.jdbc.OracleConnection}. If you pass in Connections from a
 * connection pool (the usual case in a Java EE environment), you need to set an
 * appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
 * to allow for automatic retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 *
 * Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
* 
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* {[@link DefaultLobHandler#setCreateTemporaryLob] is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

Found in path(s):
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
1.988 lvm2 2.03.12-11.el8_5

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```
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  dr-xr-xr-x  2 0 0 [LSN 23]  2048 Oct 22 2004 02:21:14  ..
  dr-xr-xr-x  2 0 0 [LSN 24]  2048 Mar 05 2005 16:12:25  copy
  lr-xr-xr-x  1 0 0 [LSN 27]  7 Mar 05 2005 15:26:00  Copy2 -> COPYING
  -r-r-r--  1 0 0 [LSN 27]  17992 Mar 05 2005 15:25:51  COPYING
  br--r--r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:32:05  id0
  dr-xr-xr-x  2 0 0 [LSN 25]  2048 Mar 05 2005 16:12:25  tmp
  cr--r--r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:31:42  zero

/copy/:
  dr-xr-xr-x  4 0 0 [LSN 23]  2048 Mar 05 2005 16:12:25  ..
  lr-xr-xr-x  1 0 0 [LSN 36]  10 Mar 05 2005 15:27:05  COPYING -> ../COPYING

/tmp/:
  dr-xr-xr-x  4 0 0 [LSN 23]  2048 Mar 05 2005 16:12:25  ..
  lr-xr-xr-x  1 0 0 [LSN 36]  18 Mar 05 2005 15:51:05  COPYING -> ../copying/COPYING
```

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```
/:
  d [LSN 23]  2048 Jan 05 2006 21:50:19  ..
  - [LSN 24]  18002 Jan 05 2006 21:46:30  copying

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  r-r-r-r--  1 0 0 [LSN 27]  17992 Mar 05 2005 15:25:51  COPYING
  r-r-r-r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:32:05  fd0
dr-xr-xr-x  2 0 0 [LSN 25]  2048 Mar 05 2005 16:12:25  tmp
cr--r--r--  1 0 0 [LSN 36]  0 Mar 05 2005 15:31:42  zero

/copy/:
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has
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application. Therefore, Subsection 2d requires that any
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medium customarily used for software interchange.

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* /opt/cola/permits/1258017222_1643022651.51/0/swagger-annotations-2-10-1-3-0-sources-jar/com/wordnik/swagger/annotations/ApiModelProperty.java
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* /opt/cola/permits/1258017222_1643022651.51/0/swagger-annotations-2-10-1-3-0-sources-jar/com/wordnik/swagger/annotations/ApiResponse.java
* /opt/cola/permits/1258017222_1643022651.51/0/swagger-annotations-2-10-1-3-0-sources-jar/com/wordnik/swagger/annotations/ApiOperation.java
* /opt/cola/permits/1258017222_1643022651.51/0/swagger-annotations-2-10-1-3-0-sources-jar/com/wordnik/swagger/annotations/ApiResponse.java
1.1007 tdb 1.45.6

1.1007.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBSYS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBSYS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
 `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..-/$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

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Gadi Oxman, August 1995

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1.1008 icu 60
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## Commands to generate dependency files
GEN_DEPS.c=$CC -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$CXX -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSDCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \
| sed 's/\(\$\%\)/\1.o \1.o $@ : /g'\ > $@; \ 
[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \ 
| sed 's/\(\$\%\)/\1.o \1.o $@ : /g'\ > $@; \ 
[ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbiotic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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 *
 * @author Stephane Nicoll
 * @since 4.1
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* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer} reference through WebSphere's proprietary {code AdminServiceFactory} API, available on WebSphere 5.1 and higher.

* <p>Exposes the {code MBeanServer} for bean references. This FactoryBean is a direct alternative to {link MBeanServerFactoryBean}, which uses standard JMX 1.2 API to access the platform's MBeanServer.


* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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  jar/org/springframework/cache/annotation/Cacheable.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/scheduling/annotation/AsyncResult.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
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  jar/org/springframework/jndi/JndiPropertySource.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
A `<em>condition</em>` is any state that can be determined programmatically before the bean definition is due to be registered (see `<link Condition>` for details).

The `<code>@Conditional</code>` annotation may be used in any of the following ways:

- as a type-level annotation on any class directly or indirectly annotated with `<code>@Component</code>`, including `<link Configuration>` classes
- as a meta-annotation, for the purpose of composing custom stereotype annotations
- as a method-level annotation on any `<link Bean>` method

If a `<code>@Configuration</code>` class is marked with `<code>@Conditional</code>`, all of the `<code>@Bean</code>` methods, `<link Import>` annotations, and `<link ComponentScan>` annotations associated with that class will be subject to the conditions.

**NOTE**: Inheritance of `<code>@Conditional</code>` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `<code>@Conditional</code>` itself is not declared as `<link java.lang.annotation.Inherited>`; furthermore, any custom `<em>composed annotation</em>` that is meta-annotated with `<code>@Conditional</code>` must not be declared as `<code>@Inherited</code>.

@since 4.0

@see Condition

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  jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jndi/JndiLocatorSupport.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jndi/JndiLocator.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/access/ContextBeanFactoryReference.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/export/naming/SelfNaming.java
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jar/org/springframework/context/NoSuchMessageException.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/scheduling/Trigger.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
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* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-jar/javax/validation/metadata/Scope.java
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1.1030 jboss-transaction-api 1.0.1.Final
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1036 redhat-indexhtml 8-7.el8

1.1036.1 Available under license:
No license file was found, but licenses were detected in source scan.

Summary: Browser default start page for Red Hat Enterprise Linux
Name: redhat-indexhtml
Version: 8
Release: 7.0.2%{?dist}
Source: %{name}-%{version}-7.tar.gz
Patch1001: oracle-release.patch
License: Distributable
Group: Documentation
BuildArchitectures: noarch
Obsoletes: indexhtml <= 2:5-1

%description
The redhat-indexhtml package provides a welcome page shown by a web browser after successful installation of Red Hat Enterprise Linux.

This web page advises users on how to register their Red Hat software and how to get any support they might need.

%prep
%setup -q -n HTML
%patch1001 -p1

%build

%install
mkdir -p $RPM_BUILD_ROOT/%{_defaultdocdir}/HTML
cp -a . $RPM_BUILD_ROOT/%{_defaultdocdir}/HTML/
%files
%{_defaultdocdir}/HTML/*

%changelog
* Thu Jul 11 2019 Alan Steinberg <alan.steinberg@oracle.com> - 8-7.0.2
  - Fixed typo in html index file. [Orabug: 30037042]

* Wed May 22 2019 Kevin Lyons <kevin.x.lyons@oracle.com> - 8-7.0.1
  - Replaced the reference from the redhat icon to the oracle linux icon [Orabug: 18272222]
  - Replace redhat references in index.html
  - Updated index.html for en-US (Avi Miller)

* Mon Jan 14 2019 Petr Kovar <pkovar@redhat.com> - 8-7
  - New content tarball for RHEL 8.0 GA
  - Update translations
  - Resolves: rhbz 1661332

* Tue Dec 18 2018 Petr Kovar <pkovar@redhat.com> - 8-6
  - New content tarball for RHEL 8 Beta
  - Fix additional translations
  - Resolves: rhbz 1644637

* Mon Dec 17 2018 Petr Kovar <pkovar@redhat.com> - 8-5
  - New content tarball for RHEL 8 Beta
  - Add additional translations
  - Resolves: rhbz 1644637

* Fri Oct 12 2018 Petr Kovar <pkovar@redhat.com> - 8-4
  - New content tarball for RHEL 8 Beta to fix fr-FR
  - Resolves: rhbz1562063

* Fri Sep 07 2018 Petr Kovar <pkovar@redhat.com> - 8-3
  - New content tarball for RHEL 8 Beta
  - Remove outdated translations
  - Remove unneeded files
  - Change file permissions to 644
  - Update description
  - Resolves: rhbz1562063

* Thu Aug 16 2018 Petr Kovar <pkovar@redhat.com> - 8-2
  - New content tarball for RHEL 8 Beta.
  - Resolves: rhbz1562063

* Tue Oct 24 2017 Merlin Mathesius <mmathesi@redhat.com> - 8-1
  - Initial conversion of package for RHEL8 alpha.

* Wed May 21 2014 Paul W. Frields <pfrields@redhat.com> - 7-11
- Bump release for rebuild

* Wed May 21 2014 Paul W. Frields <pfrields@redhat.com> - 7-10
- Fix for unsupported locale

* Thu May 15 2014 Paul W. Frields <pfrields@redhat.com> - 7-9
- New content tarball to fix errant translation files (Resolves: rhbz1055849)
- Remove obsolete feedback.html and unsupported locale

* Fri Mar 28 2014 Paul W. Frields <pfrields@redhat.com> - 7-8
- Strip obsolete HTML files (BZ#1059300)

* Wed Mar 05 2014 Paul W. Frields <pfrields@redhat.com> - 7-7
- New content tarball

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 7-5
- Mass rebuild 2013-12-27

* Tue Nov 19 2013 Ruediger Landmann <rlandmann@redhat.com> - 7-4
- update URLs for 7-Beta (BZ#1031104)

* Tue Aug 27 2013 Jens Petersen <petersen@redhat.com> - 7-3
- move common/ subdirs into HTML/

* Fri Feb 22 2013 Ruediger Landmann <rlandmann@redhat.com> - 7-2
- rm stray tarball (BZ#799063)

* Tue Jun 26 2012 Ruediger Landmann <rlandmann@redhat.com> - 7-1
- Rebuild for RHEL7 (BZ#799063)

* Fri Aug 27 2010 Parag Nemade <pnemade AT redhat.com> - 6-1
- Respin the tarball to include translated pages (#626997)

* Thu Aug 26 2010 Parag Nemade <pnemade AT redhat.com> - 6-0.7
- final English content (#626997)

* Thu Jul 29 2010 Parag Nemade <pnemade AT redhat.com> - 6-0.6
- Resolves:-rh#578072-index.html page is not localized. showing en-US/index.html page

* Wed May 12 2010 Michael Hideo <mhideo@redhat.com> - 6-0.5
- BZ#578072
- New content payload from pm group

* Thu Apr 15 2010 Jens Petersen <petersen@redhat.com>
- dont install the tarball
- update localized index.html files to show "6 Beta"

* Mon Feb 15 2010 Michael Hideo <mhideo@redhat.com> - 6-0.2
- enabling i18n

* Thu Feb 4 2010 Jens Petersen <petersen@redhat.com> - 6-0.1
- rename from indexhtml to redhat-indexhtml
- redirect to beta page

* Tue Aug 08 2006 Phil Knirsch <pknirsch@redhat.com> 5-1
- Minor cleanup to specfile
- Bumped version and release properly for RHEL5

* Fri Jul 29 2005 Bill Nottingham <notting@redhat.com> 4.1-1
- Russian (#160605)

* Tue Nov 30 2004 Bill Nottingham <notting@redhat.com> 4-2
- initial translations

* Mon Nov 22 2004 Bill Nottingham <notting@redhat.com> 4-0.1
- initial build for RHEL 4

Found in path(s):
* /opt/cola/permits/1283431973_1654447367.0082412/0/redhat-indexhtml-8-7.0.2.el8.src.rpm-cosi-expand-archive-xvHnTAwg/redhat-indexhtml.spec
No license file was found, but licenses were detected in source scan.

/*! 
 * Bootstrap v3.0.3 (http://getbootstrap.com)
 * Copyright 2013 Twitter, Inc.
 * Licensed under http://www.apache.org/licenses/LICENSE-2.0
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright  : Copyright c 2011 by Red Hat Inc All rights reserved

Found in path(s):

1.1037 wsdl4j 1.6.3
1.1037.1 Available under license:
From RPM File Metadata:CPL

1.1038 pnm2ppa 1.04-40.el8
1.1038.1 Available under license:

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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1.1041 python-ptyprocess 0.5.2-1.ph2

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1.1042 squashfs-tools 4.3-20.el8

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**1.1043 jackson-databind 2.12.1**

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* /opt/cola/permits/1105124884_1604900674.39/0/jzlib-1-1-4-sources-jar/bayern/steinbrecher/jzlib/Adler32.java
1.1049 zlib 1.2.11

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
Changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1053 dleyna-connector-dbus 0.3.0-2.el8

1.1053.1 Available under license :

No license file was found, but licenses were detected in source scan.

%global api 1.0
%global __provides_exclude_from ^%{_libdir}/dleyna-%{api}/connectors/.*\.so$

Name: dleyna-connector-dbus
Version: 0.3.0
Release: 2%{?dist}
Summary: D-Bus connector for dLeyna services

License: LGPLv2
URL: https://01.org/dleyna/
Source0: https://01.org/sites/default/files/downloads/dleyna/%{name}-%{version}.tar_2.gz

BuildRequires: dbus-devel
BuildRequires: pkgconfig(dleyna-core-1.0)
BuildRequires: pkgconfig(gio-2.0)
BuildRequires: pkgconfig(glib-2.0)
BuildRequires: pkgconfig autoconf automake libtool

%description
D-Bus connector for dLeyna services.

%package devel
Summary: Development files for %{name}
Requires: %{name}%{?_isa} = %{version}-%{release}

%description devel
The %{name}-devel package contains libraries and header files for developing applications that use %{name}.

%prep
%setup -q

%build
autoreconf -f -i
%configure \n--disable-silent-rules \n--disable-static

make %{?_smp_mflags}

%install
make install INSTALL=""%{__install} -p" DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -name '*.la' -delete

%files
%license COPYING
%doc AUTHORS
%doc ChangeLog
%doc README
%dir %{_libdir}/dleyna-%{api}
%dir %{_libdir}/dleyna-%{api}/connectors
%{_libdir}/dleyna-%{api}/connectors/libdleyna-connector-dbus.so

%files devel
%{_libdir}/pkgconfig/%{name}-%{api}.pc

%changelog
* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 0.3.0-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Thu Oct 05 2017 Debarshi Ray <rishi@fedoraproject.org> - 0.3.0-1
  - Update to 0.3.0

* Wed Aug 02 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.2.0-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Binutils_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.2.0-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.2.0-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Wed Feb 03 2016 Fedora Release Engineering <releng@fedoraproject.org> - 0.2.0-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.2.0-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Mon May 11 2015 Nils Philippsen <nils@redhat.com> - 0.2.0-5
  - rebuild for new dleyna-core

* Tue Jan 20 2015 Debarshi Ray <rishi@fedoraproject.org> - 0.2.0-4
  - Fix crash when spawned by a call to com.intel.dLeynaRenderer.Manager.Release
  (RH #1154788)

* Sat Aug 16 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.2.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.2.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Wed Jan 15 2014 Bastien Nocera <bnocera@redhat.com> 0.2.0-1
  - Update to 0.2.0

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.1.0-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Tue Jul 09 2013 Debarshi Ray <rishi@fedoraproject.org> - 0.1.0-3
  - Filter out the connector plugin from provides.

* Sun Jul 07 2013 Debarshi Ray <rishi@fedoraproject.org> - 0.1.0-2
  - Use %%%global instead of %%%define.
  - Own %%%{_libdir}/dleyna-%%%{api} and %%%{_libdir}/dleyna-%%%{api}/connectors.

* Wed Jun 26 2013 Debarshi Ray <rishi@fedoraproject.org> - 0.1.0-1
  - Initial spec.
1.1054 dbus-glib 0.110 2.el8

1.1054.1 Available under license:

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v. 2.1

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Found in path(s):
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sourcesjar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of
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When a "work that uses the Library" uses material from a header file
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Version: 3.9
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:
PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that its implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.
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Introduction

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.
How to Use
============

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex
    import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

    import lex
    import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
========
More information about PLY can be obtained on the PLY webpage at:

    http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply
An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# # calc.py
# # A simple calculator with variables.
# # #

tokens = ( 'NAME','NUMBER', 'PLUS','MINUS','TIMES','DIVIDE','EQUALS', 'LPAREN','RPAREN', )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
```
t_EQUALS = r'='
t_LPAREN  = r'('
t_RPAREN  = r')'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

# Ignored characters
    t_ignore = " 	"

def t_newline(t):
    r'
+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
    import ply.lex as lex
    lex.lex()

# Precedence rules for the arithmetic operators
    precedence = [
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    ]

# dictionary of names (for storing variables)
    names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression""

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def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'") % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c

Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}
+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+
PAM_MODUTIL_DEF_PRIVS(privs);
+
+
/* Get the password entry */
+
pwd = pam_modutil_getpwnam (pamh, user);
+
if (pwd != NULL)
+
{
+
if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+
pam_syslog(pamh, LOG_ERR,
+
"Unable to change UID to %d temporarily\n",
+
pwd->pw_uid);
+
retval = PAM_SESSION_ERR;
+
goto finished;
+
}
+
+
if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+
goto finished;
+
if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+
goto finished;
+
+
if (stat(flag, &s) != 0)
+
{
+
display_file(pamh, "/etc/legal");
+
mkdir(dir, 0700);
+
f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+
if (f>=0) close(f);
+
}
+
+finished:
+
if (pam_modutil_regain_priv(pamh, &privs)) {
+
pam_syslog(pamh, LOG_ERR,

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"Unable to change UID back to %d\n", privs.old_uid);
    retval = PAM_SESSION_ERR;
    }
    }
    _pam_drop(flag);
    _pam_drop(dir);
    }
    }
    return retval;
+
+ PAM_EXTERN
+ int pam_sm_open_session(pam_handle_t *pamh, int flags,
+ int argc, const char **argv)
+ {
+ /* Display the updated motd */
+ display_file(pamh, motd_path);
+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+ return retval;
+
+ This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

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jar/org/drools/factmodel/Traits/BuildUtils.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
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1.1091 jboss-as-embedded 7.3.0.Final-redhat-14

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# Contributions to the urllib3 project

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In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool

* niphlod <niphlod@gmail.com>
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
* Added `enforce_content_length` to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
* Don’t retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``utilselectors_fileobj_to_fd`` to accept `long`.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.1093 gutenprint 5.2.14-3.el8

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x")", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(""%s"",%#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(""%s", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(""%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(""%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(""%s", %d, \"%s\", %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s(""%s", %d, \"%s\", %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(""%s", %d, %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(""%s", %d, %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(""%s", %d, \"%s\", %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(""%s", %d, \"%s\", %#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)"", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,""%s",%#x, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh\n", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setssockopt, "setsockopt", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sippingd, "sippingd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigframe, "sigframe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(""%s",""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_th_create, "th_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_exit, "th_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_kill, "th_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_kill2, "th_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_new, "th_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_self, "th_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_set_name, "th_set_name", "%s(%d, ""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_th_suspend, "th_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_wake, "th_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_umount, "umount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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<td>yes</td>
</tr>
</tbody>
</table>

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1.1102 protobuf 1.2.1
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Go support for Protocol Buffers - Google's data interchange format

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 */

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*/
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1.1110 mod-cluster-container-jbossweb

1.2.6.Final-redhat-1

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1.1111 selinux 2.9-5.el8

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## <summary>Polaris dbgd Policy Rules.</summary>

########################################################################
## <summary>
## Write dbgd /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_dbgd_var_sock_write',`
    gen_require(`
        type polaris_dbgd_t;
        type polaris_dbgd_var_run_t;
        type var_run_t;
    `)
    write_sock_files_pattern($1, var_run_t, polaris_dbgd_var_run_t)
    allow $1 polaris_dbgd_t:unix_stream_socket { connectto };
    `)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.if
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## <summary>Polaris cpp_stats Policy Rules.</summary>
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.if
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# November 2020, Christine Hwang
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#

# Map GNSS TTY to correct device context
/dev/ttyS1 -c gen_context(system_u:object_r:polaris_cabo_gnss_device_t,s0)

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#

policy_module(polarisnginx, 1.0);

gen_require('"
    type polaris_nginx_t;
"
)

polaris_btrace_data_manage(polaris_nginx_t)
polaris_chasfs Manage(polaris_nginx_t)
polaris_tdlresolve_read(polaris_nginx_t)
polaris_tdlldb_list_dirs(polaris_nginx_t)
polaris_cpld_read(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_flashlib_read(polaris_nginx_t)
polaris_crft_data_manage(polaris_nginx_t)
polaris_ripc_sman_ui_serv_connect(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_disk_harddisk_read_lnk(polaris_nginx_t)

allow polaris_nginx_t self:tcp_socket { bind create listen accept setopt getopt shutdown};
allow polaris_nginx_t self:capability2 block_suspend;
allow polaris_nginx_t self:capability { setgid setuid sys_resource };

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polaris_lfts_dev_use(polaris_nginx_t)
logging_send_syslog_msg(polaris_nginx_t)

corenet_tcp_connect_http_port(polaris_nginx_t)
corenet_tcp_bind_generic_node(polaris_nginx_t)
corenet_tcp_bind_http_port(polaris_nginx_t)
corenet_tcp_connect_pkiserver_port(polaris_nginx_t)
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris_nginx_t)

 Allow the nginx to search/read the web servers config files
apache_read_config(polaris_nginx_t)
apache_search_config(polaris_nginx_t)

# allow read httpd_sys_content_t (/var/www/...)
apache_read_sys_content(polaris_nginx_t)

gen_require(
    type httpd_var_run_t;
    type syslogd_var_run_t;
')
setattr_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_sock_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
files_pid_filetrans(polaris_nginx_t, httpd_var_run_t, { file sock_file dir unix_stream_socket })
polaris_socketat_nsfs_read(polaris_nginx_t)

# socketat does setsockopt SO_VRF
allow polaris_nginx_t self:capability net_admin;
auth_use_nsswitch(polaris_nginx_t)

allow polaris_nginx_t tmp_t:dir create_dir_perms;
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_access.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_error.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.pid")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.accept")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.cookie_tbl")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.login_count")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "openresty.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxcsrf.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxtest.log")
create_dirs_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
manage_files_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
apache_read_log(polaris_nginx_t)
apache_write_log(polaris_nginx_t)
polaris_restconf_tmp_use(polaris_nginx_t)
dev_read_sysfs(polaris_nginx_t)
# dev/zram0 needs fs_t:filesystem getattr
ifdef('quake_platform',`
fs_getattr_xattr_fs(polaris_nginx_t)
`)

type polaris_nginx_tmp_t;
files_tmp_file(polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_aaa")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_master")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_session")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "ciscosdwan.cfg")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "proxy_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "client_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "fastcgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "scgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "uwsgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "pki")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "auth")

polaris_restconf_read(polaris_nginx_t)

# webui_helper.sh/webui_helper_upgrade.sh
polaris_process_domain_template(nginx_webui)
polaris_process_domain_template(nginx_webui_install)
polaris_nginx_exec_domain(polaris_nginx_webui_t, polaris_nginx_webui_exec_t)
polaris_nginx_exec_domain(polaris_nginx_webui_install_t, polaris_nginx_webui_install_exec_t)
corecmd_exec_bin(polaris_nginx_webui_t)
corecmd_exec_bin(polaris_nginx_webui_install_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_webui_t)
auth_use_nsswitch(polaris_nginx_webui_install_t)

#allow polaris_nginx_webui_t/polaris_nginx_webui_install_t access to nginx webui /tmp base folder
# /tmp/nginx/webui_tmp
manage_files_pattern(polaris_nginx_webui_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_webui_install_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)

#allow polaris_file_transfer_client_t to access nginx webui /tmp base folder
# /tmp/nginx/webui_tmp. We also need to allow chvrf to use the FIFO in cases
# where we use the VRF interface

gen_require(')

type polaris_file_transfer_client_t;

type polaris_chvrf_t;
')

manage_files_pattern(polaris_file_transfer_client_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_fifo_files_pattern(polaris_file_transfer_client_t, polaris_nginx_t, polaris_nginx_t)
manage_fifo_files_pattern(polaris_chvrf_t, polaris_nginx_t, polaris_nginx_t)

# fts_client binary requires access to chassis, tdlresolve and cpld
polaris_tdlresolve_read(polaris_file_transfer_client_t)
polaris_chasfs_manage(polaris_file_transfer_client_t)
polaris_cpld_read(polaris_file_transfer_client_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

gen_require(')

type polaris_file_transfer_client_exec_t;
')
polaris_bexecute_domain(polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t)

type polaris_fts_client_tmp_t;
files_tmp_file(polaris_fts_client_tmp_t)
polaris_fts_client_tmp_manage(polaris_file_transfer_client_t)

# on ultra /var/www directory created by systemd unit that runs /mount_packages.sh
# under unconfined_service_t domain

gen_require(')

type unconfined_service_t;
')
files_var_filetrans(unconfined_service_t, httpd_sys_content_t, dir, "www")

allow polaris_nginx_t self:capability dac_override;

# iox local nginx in webui connects to caf service on port 8098
corenets_tcp_connect_polaris_caf_api_port(polaris_nginx_t)

# IOx downloads the application package using network protocol (e.g http)
gen_require(')

type fifo_var_run_t;
')
allow polaris_file_transfer_client_t fifo_var_run_t:fifo_file read;

# webui connects to dbm backend service on port 9090
corenets_tcp_connect_polaris_wncmgrd_port(polaris_nginx_t)

# webui connects to poljvm service on port 9093
corenets_tcp_connect_polaris_poljvm_websocket_port(polaris_nginx_t)

# remote docker workflow
corenet_tcp_connect_us_cli_port(polaris_nginx_t)

# webui sw mgmt app which does install and smu, invokes webui helper shell
# scripts which intern invoke installer scripts. Hence need to provide transition
# rule to polaris_install_engine_t domain
polaris_install_engine_domtrans(polaris_nginx_webui_install_t)
polaris_install_show_domtrans(polaris_nginx_webui_install_t)

# Allow pipe operations during install command invocation
polaris_nginx_manage_fifo_files(polaris_bexecute_t)
polaris_nginx_manage_fifo_files(polaris_code_verify_t)
polaris_nginx_manage_fifo_files(polaris_install_engine_t)
polaris_nginx_manage_fifo_files(polaris_install_show_t)
polaris_nginx_manage_fifo_files(rsync_t)

# During install-add via WebUI, code_sign_verify generates a file:map denial
# "/usr/bin/code_sign_verify package
# /tmp/patch/smus/10_vwlce_asps_ap3g3_17.6.bin/mount/C9800-CL-mono-patch.2021-01-11_11.31_radonep"
require {
  type etc_runtime_t;
}
allow polaris_code_verify_t etc_runtime_t:file map;

# Provide sys_resource capability to webui install scripts for sys_pipe calls.
allow polaris_nginx_webui_install_t self:capability sys_resource;

# nginx/webui File-manager app provides bootflash file-mgmt facility.
# as part of this it needs RW access to bootflash.
# TODO: Bug CSCv83328 to isolate the access to another utility, which
# can have its own domain and nginx_t can transition to it.
polaris_bootflash_manage(polaris_nginx_t)

# allow nginx to manage core files
polaris_core_file_manage(polaris_nginx_t)

# lua/it module for nginx triggers execmem denial due to mprotect call.
# TODO: cdets CSCv70095 is used to track this vulnerability in
# current nginx component.
allow polaris_nginx_t self:process execmem;

# FIXME : allow shell/binary execution
# Elevated privilege needs to be addressed
# Tracked by Bugid : CSCv93448
corecmd_exec_bin(polaris_nginx_t)
corecmd_exec_shell(polaris_nginx_t)

#FIXME
# Need to re-evaluate these privileges
# Tracked by Bugid: CSCvp92908, CSCvt81963(fts_client)
polaris_file_transfer_client_domtrans(polaris_nginx_webui_install_t)

# nginx need access btrace fifo file:
polaris_use_btrace_fifo(polaris_nginx_t)
gen_require(
  type proc_t;
)
manage_files_pattern(polaris_nginx_t, polaris_nginx_t,polaris_nginx_t)
allow polaris_nginx_t proc_t:filesystem { associate };

# nginx needs access to /dev/stdout which is owned by pman
allow polaris_nginx_t polaris_pman_t:fifo_file open;

############################################################################
# aireos_translate_helper.sh
# Invokes a python library that converts aireos config to ewlc config.
############################################################################
type polaris_aireos_translator_scripts_t;
files_type(polaris_aireos_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireos_translator)
polaris_nginx_exec_domain(polaris_nginx_webui_aireos_translator_t, polaris_nginx_webui_aireos_translator_exec_t)
allow polaris_nginx_t polaris_aireos_translator_scripts_t:dir { getattr open read search };
allow polaris_nginx_t polaris_aireos_translator_scripts_t:file { getattr ioctl open read };
allow polaris_nginx_t polaris_nginx_webui_aireos_translator_exec_t:file ioctl;
allow polaris_nginx_t self:process setfscreate;
files_list_var(polaris_nginx_t)

############################################################################
# ra_trace_webui_helper.sh
# Invokes mcp_trace_filter.sh to perform radio active tracing.
############################################################################
polaris_process_domain_template(nginx_webui_trace_filter)
polaris_nginx_exec_domain(polaris_nginx_webui_trace_filter_t, polaris_nginx_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_nginx_webui_trace_filter_t)
manage_files_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
auth_use_nsswitch(polaris_nginx_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_nginx_webui_trace_filter_t)
polaris_nginx_manage_fifo_files(polaris_trace_filter_t)

############################################################################
# nginx_helper.sh
# nginx show command helper run by pman invoking curl
############################################################################
polaris_utility_domain_template(nginx_helper)
polaris_pman_entry(polaris_nginx_helper_t, polaris_nginx_helper_exec_t)
#allow execution of nginx_helper.sh
corecmd_exec_bin(polaris/nginx_helper_t)

#allow read of /etc/passwd
auth_use_nsswitch(polaris/nginx_helper_t)

#allow access to the tmp fifo file
polaris_use_btrace_fifo(polaris/nginx_helper_t)

# nginx_helper.sh reads from chasfs
polaris_chasfs_manage(polaris/nginx_helper_t)

gen_require(
    type polaris_curl_t;
    ')

# allow execution of /usr/bin/curl on the pkiserver port
polaris_curl_domtrans(polaris/nginx_helper_t)
corenet_tcp_connect_pkiserver_port(polaris_curl_t)

#allow curl to write into chasfs
polaris_chasfs_manage(polaris_curl_t)

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#
## <summary>Polaris cpp_cdm Policy Rules.</summary>

###########################################################
## <summary>
## Allow access to semaphore with type polaris_cpp_cdm_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_cdm_sem_use',
    gen_require(`
type polaris_cpp_cdm_t:
')
  allow $1 polaris_cpp_cdm_t:sem rw_sem_perms;
')

########################################################################
## <summary>
##      Allow access to shared memory with type polaris_cpp_cdm_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_cdm_shm_use',
  gen_require(
    type polaris_cpp_cdm_t;
  ')  
  allow $1 polaris_cpp_cdm_t:shm rw_shm_perms;
')

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#
## <summary>Polaris dmi_ndbmand Policy Rules.</summary>

########################################################################
## <summary>
##      Work with NDBLOAD_LOCK_PATH.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ndbload_lock_use',
  gen_require(
    type polaris_dmi_ndbutil_lock_t;
type tmp_t;

manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")


########################################################################
## <summary>
## Manage polaris_ndbmand_ndbutil_t files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_ndbmand_ndbutil_manage',
  gen_require(
    type polaris_ndbmand_ndbutil_t;
    type polaris_confd_ndbutil_lock_t;
  )
  manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_ndbmand_ndbutil_t)
)

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## <summary>Polaris sif_mgr Policy Rules.</summary>

########################################################################
## <summary>
## Allow the specified domain able to read sif_mgr /tmp files.
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="object"
## <summary>
## File name in /tmp that the sif_mgr domain creates and other domains
## access.
## </summary>
## </param>
#
interface(`polaris_sif_mgr_tmp_files_read',
  gen_require(
    type polaris_sif_mgr_tmp_t;
  )

  read_files_pattern($1, polaris_sif_mgr_tmp_t, polaris_sif_mgr_tmp_t)
')

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#
## <summary>Polaris Chasfs Policy Rules.</summary>

# Chasfs policy

# Chasfs policy

### <summary>
### Manage chasfs files
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface(`polaris_chasfs_manage',
  gen_require(
    type polaris_chasfs_t;
  )

  manage_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_link_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

allow $1 polaris_chasfs_t:{file dir} watch;

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;
'

 ######################################
## <summary>
##      Read chasfs files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_chasfs_read`,
gen_require(
  type polaris_chasfs_t;
')
  list_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_link_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
')

 #######################################
## <summary>
##     Manage chasync file(user_input_custom.xml)
## </summary>
## <param name="domain">
##      <summary>
##      getattr allowed access.
##      </summary>
## </param>
## <rolebase/>
#

interface('polaris_chasync_files_manage',
    gen_require(
        type polaris_chasync_files_t;
    )
    manage_files_pattern($1, polaris_chasync_files_t, polaris_chasync_files_t)
)

#######################################
## <summary>
##      Watch read chasfs directories
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_chasfs_watch_read',
    gen_require(
        type polaris_chasfs_t;
    )
    allow $1 polaris_chasfs_t:dir watch_reads;
)

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# March 2017, Victor Kamensky
#
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#
/dev/dev_lfts -c gen_context(system_u:object_r:polaris_lfts_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarislfts.fc
No license file was found, but licenses were detected in source scan.

#
# July 2019, Victor Kamensky
#
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#
### <summary>Polaris GR Manager Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polgrsmgr.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwc, 1.0);

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
type polaris_chdrvmmmap_device_t;
dev_node(polaris_chdrvmmmap_device_t)

# gettysburg_fpga device (/dev/gettysburg_dev1)
type polaris_gettysburg_fpga_device_t;
dev_node(polaris_gettysburg_fpga_device_t)

# dplr io memory mapping driver /dev/cisco/dplriomem
type polaris_dplr_iomem_mmapdrv_device_t;
dev_node(polaris_dplr_iomem_mmapdrv_device_t)

# /dev/shm/ngwc_shm shared memory
type polaris_ngwc_shm_t;
files_type(polaris_ngwc_shm_t)

# /dev/shm/ngwc_scc_shm shared memory
type polaris_ngwc_scc_shm_t;
files_type(polaris_ngwc_scc_shm_t)

# /dev/shm/iomd_to_fed_ptp_offload shared memory
type polaris_ngwc_itfpo_t;
files_type(polaris_ngwc_itfpo_t)

# /dev/shm/sdm shared memory
type polaris_sdm_shm_t;
files_type(polaris_sdm_shm_t)

# /dev/shm/i2c_sem00N quake sempaphor
type polaris_quake_i2c_t;
files_type(polaris_quake_i2c_t)
#FPGA io memory mapping driver /dev/cisco/fpgaiomem
type polaris_fpga_iomem_mmapfpga_device_t;
dev_node(polaris_fpga_iomem_mmapfpga_device_t)

# Mapping permission for /dev/shm/<name>
ifdef(`quake_platform',`
  gen_require(`
    type systemd_tmpfiles_t;

  ')

  mmap_files_pattern(systemd_tmpfiles_t, polaris_quake_i2c_t, polaris_quake_i2c_t)
  ')

# In combined image we have several policies and we choose
# one to use in run-time, but file system is shared and
# labeled with different file_context files, so it is
# possible that we may have some labels that other policy
# does not understand for now just hard missing entries
ifdef(`nyquist_platform',`
  type polaris_cm_cc_exec_t;
  files_type(polaris_cm_cc_exec_t)
  type polaris_cm_fp_exec_t;
  files_type(polaris_cm_fp_exec_t)
  type polaris_flashcheck_exec_t;
  files_type(polaris_flashcheck_exec_t)
  type polaris_emd_exec_t;
  files_type(polaris_emd_exec_t)
  type polaris_ngwc_ishow_exec_t;
  files_type(polaris_ngwc_ishow_exec_t)

# Adding here as this unmount command is specific to Nyquist platform.  
# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_unmount)
corecmd_exec_bin(polaris_ssd_unmount_t)
storage_getattr_fixed_disk_dev(polaris_ssd_unmount_t)
fstools_domtrans(polaris_ssd_unmount_t)
mount_domtrans(polaris_ssd_unmount_t)
polaris_use_btrace_fifo(polaris_ssd_unmount_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_unmount_t)
polaris_chasfs_read(polaris_ssd_unmount_t)
polaris_cpld_read(polaris_ssd_unmount_t)

#Read /tmp/sw/boot files
polaris_boot_tmp_read(polaris_ssd_unmount_t)
# Allow read to btrace tmp files
polaris_btrace_tmppub_read(polaris_ssd_unmount_t)
# Allow getattr to tmpfs
fsgetattrtmpfs(polarisssd_unmount_t)
# Allow read to ssd auth tmp files /tmp/ssd_blk_device created by udev
polarisreadssdtmpp_files(polarisssd_unmount_t)

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polarisssd_unmount_tmp_t;
files_tmpp_file(polarisssd_unmount_tmp_t)
files_tmppfiletrans(polarisssd_unmount_tmp_t, polarisssd_unmount_tmp_t, file)
manage_files_pattern(polarisssd_unmount_t, polarisssd_unmount_tmp_t, polarisssd_unmount_tmp_t)
allow polarisssd_unmount_t polarisssd_unmount_tmp_t:file { unlink };  #Allow nfs dir/file read
rpcmanagernfs_state_data_dir(polarisssd_unmount_t)
rpcmanagernfs_state_data(polarisssd_unmount_t)
# Allow read access to files on nfsd file system
fsreadnfsc_files(polarisssd_unmount_t)
kernellrw_rpc_sysctls(polarisssd_unmount_t)
fsgetattrxattrfs(polarisssd_unmount_t)

# allow create/sendto/connections operations for logger
allow polarisssd_unmount_t self:unix_dgram_socket sendto;
allow polarisssd_unmount_t self:unix_dgram_socket create_socket_perms;
logging_create_devlog_dev(polarisssd_unmount_t)
logging_send_syslog_msg(polarisssd_unmount_t)
polarisssdvergetattr(polarisssd_unmount_t)
#allow dir:search getattr read for udev tmp files
#allow file:write open for udev tmp files
polaris_uddev_tmp_manager(polarisssd_unmount_t)
gen_require(`
    type rsync_exec_t;
    type rsync_port_t;
`)
#allow tcp_socket:name_connect for rsync_port_t
#polarisssd_unmount_t has superset privileges of rsync, so its good
#to run rsync in unmount domain. This is not the case everywhere. Please use
#corenet_tcp_connect_rsync_port if rsync needs to be run in its own domain
allow polarisssd_unmount_t rsync_port_t:tcp_socket name_connect;
#allow file:get_attar exec read open map execute_no_trans for rsync_exec_t
allow polarisssd_unmount_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
#allow dir:getattr for removable_t
polarisgetattr removable(polarisssd_unmount_t)
`)
ifdef(`passport_platform`,
    type polaris_auto_upgrade_server_rp_exec_t;
    files_type(polaris_auto_upgrade_server_rp_exec_t)
    type polaris_bt_logger_exec_t;
    files_type(polaris_bt_logger_exec_t)
"
type polaris_cmm_exec_t;
files_type(polaris_cmm_exec_t)

type polaris_ngwc_plfm_mgr_exec_t;
files_type(polaris_ngwc_plfm_mgr_exec_t)

type polaris_sif_mgr_exec_t;
files_type(polaris_sif_mgr_exec_t)

type polaris_torch_exec_t;
files_type(polaris_torch_exec_t)

type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)

type polaris_faked_exec_t;
files_type(polaris_faked_exec_t)

ifdef(`starfleet_platform',

	type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)

type polaris_auto_upgrade_server_rp_exec_t;
files_type(polaris_auto_upgrade_server_rp_exec_t)

type polaris_gr_mgr_exec_t;
files_type(polaris_gr_mgr_exec_t)

type polaris_ioxss_rp_exec_t;
files_type(polaris_ioxss_rp_exec_t)
')

#else

	type polaris_disk_ucode0_t;
files_type(polaris_disk_ucode0_t);

	type polaris_nplusm_power_file_t;
polaris_pfile_type(polaris_nplusm_power_file_t)

#endif
polaris_disk_ucode0_read_lnk(polaris_periodic_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.te
No license file was found, but licenses were detected in source scan.

## <summary>Polaris cfgmgr Policy Rules.</summary>

### <summary>Write cfmgr /var/run socket file</summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

interface(‘polaris_cfgmgr_var_sock_write’,
    gen_require(
        type polaris_cfgmgr_t;
        type polaris_cfgmgr_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_cfgmgr_var_run_t)
    allow $1 polaris_cfgmgr_t:unix_stream_socket { connectto };
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.if
No license file was found, but licenses were detected in source scan.

## March 2017, Victor Kamensky
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##
policy_module(polaris_stackmgr, 1.0);

gen_require('  
    type polaris_stack_mgr_t;
')
polaris_btrace_data_manage(polaris_stack_mgr_t)
polaris_crft_data_manage(polaris_stack_mgr_t)
polaris_chasfs_manage(polaris_stack_mgr_t)
polaris_tdlresolve_read(polaris_stack_mgr_t)
polaris_tdlldb_list_dirs(polaris_stack_mgr_t)
polaris_cpld_read(polaris_stack_mgr_t)
polaris_lua_read(polaris_stack_mgr_t)
polaris_flashlib_read(polaris_stack_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_stack_mgr_t)
polaris_db_tdlldb_dir_use(polaris_stack_mgr_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_stack_mgr_t)

allow polaris_stack_mgr_t self:capability { dac_override };
polaris_dynfg_tmp_read(polaris_stack_mgr_t)
corecmd_exec_bin(polaris_stack_mgr_t)
corecmd_exec_shell(polaris_stack_mgr_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_stack_mgr_t)

# read /proc/cmdline
kernel_read_system_state(polaris_stack_mgr_t)

# open /dev/ttyS0 console in stack_console_write_init
term_use_unallocated_tty(polaris_stack_mgr_t)

# on ngwc/vwlc FIPS code reads /tmp/hw_entropy
polaris_hw_entropy_use(polaris_stack_mgr_t)

# stackmgr runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_stack_mgr_t)

# stack_mgr needs to be able to access /tmp/issu_stk/prst_sync_rld_info_prcsd
polaris_issu_stack_tmp_manage(polaris_stack_mgr_t)

# may use mcp_chvrf.sh to access other nodes in system.
# Note that we do not actually need to transition to the chvrf domain, however
# a file descriptor leak can occur and the domain transition permission macro
# expands to allow polaris_chvrf_t to access the fifo
polaris_chvrf_domtrans(polaris_stack_mgr_t)

# Allow read on bootflash to be able to read reload_history
polaris_bootflash_read(polaris_stack_mgr_t)

# stackmgr tmp files
 type polaris_stack_mgr_tmp_t;
 files_tmp_file(polaris_stack_mgr_tmp_t)
 files_tmp_filetrans(polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t, file, "ngwc_reload_reason")
 manage_files_pattern(polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t)

allow polaris_stack_mgr_t self:capability sys_nice;
allow polaris_stack_mgr_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.te
No license file was found, but licenses were detected in source scan.

# # January 2018, Manohar Hungund
#
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#
#
# polarisocdtplogrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisocdtplogrp.fc
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
#
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#
#
## <summary>Polaris cedge_start Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
define(`polaris_mqipc_service_server_aux', `dnl
type $1;
polaris_mqipc_type($1)
polaris_mqipc_$2_create_name($3)'))

define(`polaris_mqipc_service_server', `dnl
polaris_mqipc_service_server_aux(mqipc_label($1), mqipc_stem($1), process_label($2))
')

define(`polaris_mqipc_service_client_aux', `dnl
polaris_mqipc_$2_use($3)'))

define(`polaris_mqipc_service_client', `dnl
polaris_mqipc_service_client_aux(mqipc_label($1), mqipc_stem($1), process_label($2))
')

define(`polaris_mqipc_service_server_elastic_client', `')

# Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_te.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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# #</summary>
Polaris polarsiqfp Policy Rules.</summary>

# Work (read, write, ioctl) with /dev/netmap device
#</summary>
# <param name="domain">
# Domain allowed access.
# </summary>
#</param>
# interface(`polaris_netmap_dev_use';
gen_require(`
type device_t;
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

type polaris_netmap_device_t;

write_chr_files_pattern($1, device_t, polaris_netmap_device_t)
read_chr_files_pattern($1, device_t, polaris_netmap_device_t)
allow $1 polaris_netmap_device_t:chr_file map;

######################################
## <summary>
## Work (read, write, ioctl) with /dev/svc_eng_puntNN devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(‘polaris_svc_eng_punt_dev_use’,
gen_require(‘
    type device_t;
type polaris_sep_device_t;
’)write_chr_files_pattern($1, device_t, polaris_sep_device_t)
read_chr_files_pattern($1, device_t, polaris_sep_device_t)
)

######################################
## Allow access to semaphore with type polaris_qfp_t
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(‘polaris_qfp_sem_use’,
gen_require(‘
    type polaris_qfp_t;
’)allow $1 polaris_qfp_t:sem rw_sem_perms;
)

######################################
## Send messages to qfp unix datagram sockets.
## <param name="domain">

## Domain allowed access.

```c
interface('polaris_qfp_dgram_send',
    gen_require(
        type polaris_qfp_t;
    ')
)
allow $1 polaris_qfp_t:unix_dgram_socket sendto;
')

# CSR & C8Kv infiniband devices in Azure
interface('polaris_infiniband_dev_use',
    gen_require(
        type device_t;
        type polaris_infiniband_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
    read_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
    allow $1 polaris_infiniband_device_t:chr_file map;
')

########################################
## Execute iodbd.sh script in the polaris_iodb_t domain.
## Domain allowed to transition.
##
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
##
#
interface('polaris_iodb_domtrans',
    gen_require(
        type polaris_iodb_t, polaris_iodb_exec_t;
    ')
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_iodb_exec_t, polaris_iodb_t)
')

########################################
## Manage files and directorys under /tmp/iodb
##
## <param name="domain">
##
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_iodb_tmp_manage',`
gen_require(
    type polaris_iodb_tmp_t;
')
manage_files_pattern($1, polaris_iodb_tmp_t,polaris_iodb_tmp_t)
manage_dirs_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)
fs_getattr_tmpfs($1)
')

########################################
## <summary>
## Manage files and directories under /tmp/memif
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_qfp_memif_manage',`
gen_require(
    type polaris_qfp_memif_t;
')
manage_files_pattern($1, polaris_qfp_memif_t,polaris_qfp_memif_t)
manage_sock_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern($1, { tmp_t polaris_qfp_memif_t }, polaris_qfp_memif_t)
allow $1 polaris_qfp_memif_t:file map;
')

########################################
## polaris_qfp_log_manage
## <summary>
## Name of the file being managed.
## <summary>
## Work (read, write, ioctl) with /dev/icp_adf_ctl and /dev/icp_dev_mem devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_icp_dev_use',
    gen_require(',
        type device_t;
        type polaris_icp_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_icp_device_t)
    read_chr_files_pattern($1, device_t, polaris_icp_device_t)
    allow $1 polaris_icp_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.if
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#
# March 2017, Victor Kamensky
#
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#
/usr/bin/os/bin/.*linux_iosd.*ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/usr/bin/os/bin/mcpcc-lc-ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/tmp/boottime                          gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/booted                            gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.fc
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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#  
### <summary>Polaris cli_agent Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.if
No license file was found, but licenses were detected in source scan.

#  
# August 2017, Shawn Lu
#  
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
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#  
# polarisrogued file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.fc
No license file was found, but licenses were detected in source scan.

#  
# July 2017, Victor Kamensky
#  
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#  
### <summary>Polaris MCP Platform Policy Rules.</summary>

###########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/scooby
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_scooby_dev_use',
gen_require(
    type device_t;
    type polaris_scooby_device_t;
)
    write_chr_files_pattern($1, device_t, polaris_scooby_device_t)
    read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
)"


## <summary>
## Work (read, write, ioctl) with /dev/spa[0123]
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

#
interface('polaris_spa_dev_use',
gen_require(
    type device_t;
    type polaris_spa_device_t;
)
    write_chr_files_pattern($1, device_t, polaris_spa_device_t)
    read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
    allow $1 polaris_spa_device_t:chr_file map;
)


## <summary>
## Work (read, write, ioctl) with /dev/htdp[0-9]*
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

#
interface('polaris_htdp_dev_use',
    gen_require(
        type device_t;
        type polaris_htdp_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_htdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_htdp_device_t)
)

######################################
## <summary>
##      Work (read, write, ioctl) with /sys/devices/virtual/sys_platform
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_sysfs_platform_dev_use',
    gen_require(
        type polaris_sysfs_platform_t;
    )
    manage_files_pattern($1, polaris_sysfs_platform_t, polaris_sysfs_platform_t)
)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/ds31408
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ds31408_dev_use',
    gen_require(
        type device_t;
        type polaris_ds31408_device_t;
    )
    rw_chr_files_pattern($1, device_t, polaris_ds31408_device_t)
)

######################################
## <summary>
##      Allow access to /dev/cbdma
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cbdma_dev_use`,
    gen_require(`
      type device_t;
      type polaris_cbdma_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
    read_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
    allow $1 polaris_cbdma_device_t:chr_file map;
`)
########################################
## <summary>
##      Allow access to /dev/cpp_htdp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpp_htdp_dev_use`,
    gen_require(`
      type polaris_cpp_htdp_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
    allow $1 polaris_cpp_htdp_device_t:chr_file map;
`)
########################################
## <summary>
##      Allow access to /dev/n2_device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_n2_dev_use`,
    gen_require(`
      type device_t;
      type polaris_n2_device_t;
write_chr_files_pattern($1, device_t, polaris_n2_device_t)
read_chr_files_pattern($1, device_t, polaris_n2_device_t)

########################################
## <summary>
##      Allow access to /dev/cy2213
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cy2213_dev_use',`
  gen_require(`
    type device_t;
    type polaris_cy2213_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
  read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
`)

########################################
## <summary>
##      Allow access to /dev/vega
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vega_dev_use',`
  gen_require(`
    type device_t;
    type polaris_vega_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_vega_device_t)
  read_chr_files_pattern($1, device_t, polaris_vega_device_t)
`)

########################################
## <summary>
##      Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_dash_dev_mcp_use',
gen_require(`
    type device_t;
    type polaris_dash_device_t;
`)
    write_chr_files_pattern($1, device_t, polaris_dash_device_t)
    read_chr_files_pattern($1, device_t, polaris_dash_device_t)
    allow $1 polaris_dash_device_t:chr_file map;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Crankshaft (Overlord, Utah and Fugazi) Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 3)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 3)

max_bay_ripc_map_set(`rp', `per_bay', 3)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 3)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/mcpmaps.m4
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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#  

policy_module(polarisiosd, 1.0);
type polaris_iosd_t;
')

*******************************************************************************
# mqipc manual, one that missing in platform tdl file
*******************************************************************************

ifdef('nyquist_platform',
gen_require('  type polaris_bt_logger_iosd_mqipc_t;
'))

# iosd may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_iosd_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
')

polaris_btrace_data_manage_all(polaris_iosd_t)
polaris_chasfs_manage(polaris_iosd_t)
polaris_tdlresolve_read(polaris_iosd_t)
polaris_tldldb_list_dirs(polaris_iosd_t)
polaris_cpld_read(polaris_iosd_t)
polaris_lua_read(polaris_iosd_t)
polaris_flashlib_read(polaris_iosd_t)
polaris_crft_data_manage_all(polaris_iosd_t)
optional_policy('  polaris_gnmib_gnoi_images_manage(polaris_iosd_t)
')

polaris_ripc_sman_ui_serv_connect(polaris_iosd_t)

polaris_db_tldldb_dir_use(polaris_iosd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iosd_t)

# allow iosd read/write via hostname <>
systemd_hostnamed_manage_config(polaris_iosd_t)

# creates /etc/netns/1/resolv.conf via ip domain-name <> command
# creates /etc/netns/vrf.VRFNAME via ip vfr VFRNAME command
# creates /etc/netns/vrf.VRFNAME/resolv.conf via ip
# domain-name vrf VFRNAME <> command
gen_require('  type net_conf_t;
')
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_iosd_t, net_conf_t, dir, "netns")
sysnet_manage_config(polaris_iosd_t)
sysnet_manage_config_dirs(polaris_iosd_t)

# for pluggable FS, allow iosd to access files on them.
polaris_getattr_removable(polaris_iosd_t)
polaris_removable_manage(polaris_iosd_t)
fs_read_removable_symlinks(polaris_iosd_t)

polaris_lsmpi_dev_use(polaris_iosd_t)
polaris_lsmpi_sysctl_read(polaris_iosd_t)
polaris_cfg_data_manage(polaris_iosd_t)
polaris_proc_rmonbifo_read(polaris_iosd_t)
polaris_icc_broken_relocations(polaris_iosd_t)

allow polaris_iosd_t self:capability { sys_nice chown fsetid sys_rawio dac_override dac_read_search ipc_lock };

gen_require(
    type httpd_config_t;
    type tmp_t;
)

# iosd creates /tmp/nginx.conf file
manage_files_pattern(polaris_iosd_t, tmp_t, httpd_config_t)
# transition nginx.conf into httpd_config_t
files_tmp_filetrans(polaris_iosd_t, httpd_config_t, file, "nginx.conf")
# RW access to /usr/binos/conf/nginx-conf/servers (utd feature)
manage_dirs_pattern(polaris_iosd_t, httpd_config_t, httpd_config_t)

#iosd create /tmp/nginx/cert/ca.cert
polaris_nginx_tmp_manage(polaris_iosd_t)

# !!!LOOK AT ME!!! - we allow iosd to read raw memory
# dev_read_raw_memory(polaris_iosd_t)

polaris_flashlib_write(polaris_iosd_t)
polaris_nvram_manage(polaris_iosd_t)
polaris_persistent_manage(polaris_iosd_t)

# smu management in iosd (linked in via libbcrdu.so) accesses
# files created by the installer under /tmp/patch
polaris_install_tmp_read(polaris_iosd_t)

optional_policy(
    polaris_cpp_tmp_ifdev_use(polaris_iosd_t)
)
polaris_dyncfg_tmp_read(polaris_iosd_t)
lsmpi_fetch_linux_ifindex tries to ioctl(skfd, SIOCGIFINDEX, &ifr) on non existent ethN interface, as result kernel triggers attempt to load kernel module that would correspond to such interface. Deny and don't audit iosd_t attempt to load kernel modules.

LOOK AT ME: in long term we don't want iosd even try to load modules and we would actually would want to report and fail such kernel_dontaudit_request_load_module(polaris_iosd_t)

iosd calls nice function to change fast path priority (mcp_fastpath_thread_func) allow polaris_iosd_t self:process setsched;

ifdef(`crankshaft_family',`
ifconfig_attach_tun_iface(polaris_iosd_t)
coreneth tuna tap_dev(polaris_iosd_t)
')

ifdef(`mcp_family',`
ifconfigAttach_tun_iface(polaris_iosd_t)
coreneth tuna tap_dev(polaris_iosd_t)
allow polaris_iosd_t polaris_iosd_t:tun_socket relabelfrom;
')

# on ultra iosd is figuring out parameters of interfaces of underlying hypervisors kvm, vmware, etc. See vxe_gethd_ifdb_scan
ifdef(`crankshaft_family',`
dev_rw_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
')

ifdef(`vxe_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
polaris_objstore_sem_use(polaris_iosd_t)
')

ifdef(`vwlc_platform',`
polaris_disk_objstore_manage(polaris_iosd_t)
optimal_policy(`
  polaris_vwlcggrub_efi_use(polaris_iosd_t)
')

')

ifdef(`wlc_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_tlscd_uds_manage(polaris_iosd_t)
gen_require(`
  type polaris_tlscd_t;
')
allow polaris_iosd_t polaris_tlscd_t:unix_dgram_socket sendto;
')

# on 1ng mcpcc-lc-ms reads /sys/devices/system/cpu/online
ifdef(`mcp_family',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

# neptune need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`neptune_platform',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

# radium need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`radium_platform',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

ifdef(`quake_platform',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

ifdef(`supernova_platform',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

ifdef(`supernova_platform',
  dev_read_sysfs(polaris_iosd_t)
)
#endif

# work with /tmp/boottime, /tmp/booted files: create/write
type polaris_iosd_tmp_files_t;
files_tmp_file(polaris_iosd_tmp_files_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "boottime")
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "booted")
create_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)

#allow polaris_iosd_t polaris_udev_tmp_files_t:dir { getattr open read search };
#allow polaris_iosd_t polaris_udev_tmp_files_t:file { open, read, write };
# LOOK AT ME (need to review write access with iosd team)
polaris_udev_tmp_manage(polaris_iosd_t)

# work with /tmp/restconf
type polaris_restconf_tmp_t;
files_tmp_file(polaris_restconf_tmp_t)
polaris_restconf_tmp_use(polaris_iosd_t)
files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_t, dir, "restconf")
filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_t, polaris_restconf_tmp_t, file)

# work with /tmp/netio0
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, dir, "netio0")
# sockets and dirs created under /tmp/netio0
manage_dirs_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
manage_sock_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow polaris_iosd_t self:unix_dgram_socket create_socket_perms;
gen_require('  
  type inetd_child_t;
');

# sendto permission for /tmp/netio0/ttyC100
allow polaris_iosd_t inetd_child_t:unix_dgram_socket sendto;

polaris_socketat_nsfs_read(polaris_iosd_t)

# onep uses TIPC sockets see onep_tipc_transport_start
allow polaris_iosd_t self:socket { bind create listen accept getattr read write ioctl getopt setopt };

# mcp_eobc_create_socket creates UDP socket for eobc
corenet_udp_bind_polaris_iosd_eobc_port(polaris_iosd_t)
gen_require('  
  type node_t;
');

allow polaris_iosd_t node_t:udp_socket node_bind;
allow polaris_iosd_t self:udp_socket { bind create ioctl setopt read write };

# direct access to serial TTY devices like /dev/ttyS1
term_use_unallocated_ttys(polaris_iosd_t)

# on ultra cvac_load_config function tried to access cdrom0:/iosxe_config.txt
# and if exists read
ifdef('vxe_family','
  fs_read_iso9660_files(polaris_iosd_t)
');
ifdef('wlc_family','
  fs_read_iso9660_files(polaris_iosd_t)
');

# ifs_get_free_bytes invokes mcp_fs_statfs and eventually mcp_wrapper_statvfs
# with "/bootflash"...this needs attr access for "/
fs_getattr_xattr_fs(polaris_iosd_t)

# iosd works with cpp /dev/shm/cpp_ifdev_shmem shared mmory
optional_policy('  
polaris_cpp_tmpfs_ifdev_rw(polaris_iosd_t)
');

# iosd reads/writes into grubenv for confreg
optional_policy('  
polaris_grub_efi_use(polaris_iosd_t)
');

# when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;
# mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

# Need this for bluetooth to work. HCI library uses this
allow polaris_iosd_t self:capability net_raw;

ifdef(`mcp_family',`
  polaris_obfl_data_read(polaris_iosd_t)
')

# iosd uses quack on mcp and crankshaft and ngwc
ifdef(`mcp_family',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`crankshaft_family',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`ngwc_family',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`qwlc_platform',`
  polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`katar_platform',`
  polaris_quack_dev_use(polaris_iosd_t)
')

ifdef(`mcp_family',`
  polaris_spa_dev_use(polaris_iosd_t)
  polaris_sysfs_platform_dev_use(polaris_iosd_t)
')

# on 1ng write/ioctl into /dev/cpld-ha
# on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(`
  polaris_cpld_dev_use(polaris_iosd_t)
')

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iosd_tmpfs_t;
  files_tmpfs_file(polaris_iosd_tmpfs_t)
  fs_tmpfs_filetrans(polaris_iosd_tmpfs_t, file)
  manage_files_pattern(polaris_iosd_t, tmpfs_t, polaris_iosd_tmpfs_t)

optional_policy(`
polaris_iodb_tmp_manage(polaris_iosd_t)
')

# on ngwc FIPS code reads /tmp/hw_entropy
# seems like iosd can delete the file as well
polaris_hw_entropy_create(polaris_iosd_t)

optional_policy(')
# on macallan iosd needs to access /dev/cpld
polaris_cpld_dev_read(polaris_iosd_t)
')

# on tsn iosd needs write access to
# sys/devices/platform/cpld/reg_rp_reset_button_status
# sys/devices/platform/cpn-110-master DSR/DTR status
ifdef('crankshaft_family','
type polaris_quake_i2c_t;

polaris_cpld_write(polaris_iosd_t)
polaris_ggpio_dev_read_write(polaris_iosd_t)
polaris_quake_i2c_manage(polaris_iosd_t)
')

ifdef('katar_platform','
polaris_cpld_write(polaris_iosd_t)
')

# on tsn iosd needs access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/led_status
optional_policy(')
polaris_mokafpga_rw(polaris_iosd_t)
')

# iosd reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_iosd_t)

# iosd needs manage_dirs, manage_files and manage_lnk
# permissions at */tmp/ufs/lic0/<remote_ip>/*
optional_policy(')
polaris_nkd_tmp_manage(polaris_iosd_t)
')

# access NFS mounted directories from other nodes or members
fs_getattr_nfs(polaris_iosd_t)

# mcp/mcprp/if_unix_se.c code works with /sys/devices/virtual/contdev
# files and /proc/net/dev
polaris_manage_contdev_dev(polaris_iosd_t)
kernel_read_network_state(polaris_iosd_t)

# iosd creates /tmp/iox_xml.dat file
optional_policy(
    polaris_iox_manage_tmp_files(polaris_iosd_t)
    )

polaris_caf_var_run_files_manage(polaris_iosd_t)
container_read_lib_files(polaris_iosd_t)

# work with files like /tmp/rp/.shell_exec.5B1BF1D7648E21AEE3000002
type polaris_iosd2iox_tmp_t:
files_tmp_file(polaris_iosd2iox_tmp_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd2iox_tmp_t, file)
polaris_iosd2iox_tmp_manage(polaris_iosd_t)

# work with response
optional_policy(
    polaris_iox2iosd_tmp_manage(polaris_iosd_t)
    )

polaris_sandbox_file_dir_list(polaris_iosd_t)

# lfts 2.0 iosd provides route information to kernel. it talks
# using generic netlink family socke. See iosd bsock_sar_netlink_process
# process
allow polaris_iosd_t self:netlink_generic_socket create_socket_perms;
allow polaris_iosd_t self:netlink_socket create_socket_perms;

# LOOK AT ME
# on nyquist iosd accesses files like lic0-2:/sanosync.data.readLock
# from saLockCheck function and it happens just right after lic0-2 was
# mounted over NFSv4. It seems that labels from remote node did not
# take an effect yet. For now allow access to dir and files that
# are not yet labeled.
ifdef(`nyquist_platform',`
files_manage_isid_type_dirs(polaris_iosd_t)
files_manage_isid_type_files(polaris_iosd_t)
')
ifdef(`ngwc_family',`
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
#policy needed for accessing sys/bus/usb/drivers/usb/*/authorized
dev_rw_sysfs(polaris_iosd_t)
')
ifdef(`passport_platform',`
polaris_cm_rp_tmp_manage(polaris_iosd_t)
')
polaris_lfts_dev_use(polaris_iosd_t)

# /dev/shm/vrf_shm access for show command
polaris_vrf_shm_manage(polaris_iosd_t)

# /dev/shm/sdm access
optional_policy(
  polaris_sdm_shm_manage(polaris_iosd_t)
)

# iosd needs access to logging facility
logging_send_syslog_msg(polaris_iosd_t)

#iosd need access to /webui/*.odm files
polaris_read_webui_files(polaris_iosd_t)

# allow getting binos networking stats AF_NETLINK
allow polaris_iosd_t self:netlink_route_socket rw_netlink_socket_perms;

# confd needs to talk with IOSd via real linux udp snmp socket
allow polaris_iosd_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenet_udp_bind_snmp_port(polaris_iosd_t)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`vxe_family',`
polaris_qfp_sem_use(polaris_iosd_t)
')
ifdef(`wlc_family',`
polaris_qfp_sem_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
')

# Ismpi replacement punt/inject over domain sockets
ifdef(`vxe_family',`
polaris_pi_uds_manage(polaris_iosd_t)
polaris_qfp_dgram_send(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
')

# CSR when operating in VGA mode uses /dev/tty0 as the console for the system
# (including IOSD).IOSD setup scripts pass in the tty device(s) to use in the
# REAL_CONSOLE and REAL_AUX environment variables. IOSD configures the tty
# for its operation and hence need the capability.
allow polaris_iosd_t self:capability sys_tty_config;

# LOOK AT ME: hot patch upon a reboot requires execmem operation - which
# currently is not allowed. Remove the following policy when CSCvq59763
# has been completed.
allow polaris_iosd_t self:process execmem;

# /dev/epaN on qwlc/asr1k(mcp)
optional_policy(
  polaris_epa_dev_use(polaris_iosd_t)
')

# /dev/qae_mem device access on overlord
optional_policy(
  polaris_qae_dev_use(polaris_iosd_t)
')

# ioucon binary invoked on standby console attach.
polaris_ioucon_dgram_send(polaris_iosd_t)

# usb device requires read permissions.
kernel_read_debugfs(polaris_iosd_t)

# iosd requires access to /tmp/sv
ifdef('ngwc_family',
  polaris_sv_tmp_use(polaris_iosd_t)
  ifconfig_attach_tun_iface(polaris_iosd_t)
  corenet_rw_tun_tap_dev(polaris_iosd_t)
')
polaris_i2c_use(polaris_iosd_t)

# on CSR AWS deployment iosd needs read access to /dev/console
term_read_console(polaris_iosd_t)

# On vxe platforms the cloudint config is stored in /varied. We need
# to be able to read it.
ifdef('vxe_family',
polaris_disk_varied_read(polaris_iosd_t)
')

# In stacked and ha setup secondary SUP bootflash and hardisk
# are mounted on active and is accessed by iosd.
polaris_getattr_bootflash(polaris_iosd_t)
polaris_getattr_harddisk(polaris_iosd_t)

# read access to /dev/random
dev_read_rand(polaris_iosd_t)

# Allow access of /tmp/maroon_stats files
polaris_maroon_data_manage_all(polaris_iosd_t)

# Access to /dev/bp_async device on nanook platform
optional_policy(
    polaris_bp_async_dev_use(polaris_iosd_t)
)

# Permission for access file attribute to list the file info
polaris_caf_tmp_files_getattr(polaris_iosd_t)

# DB persistence
polaris_tdldbpersist_setup(polaris_iosd_t)
polaris_tmp_tdldb_persist_setup(polaris_iosd_t)

# IOSCC needs access to /mnt/firmware for intelligent spa during bootup
polaris_firmware_read(polaris_iosd_t)

# On Sparrow platform: IOSd requires access to /dev/remap_mem0
# and /dev/usb_console for OOB management
# Also allows access to /dev/sparrow_psu and /dev/net/tun
# /dev/shm/sem_dev_i2c_0 sempahor
ifdef(`sparrow_platform',
    gen_require(
        type polaris_cm_cc_tmpfs_t;
    )
    polaris_remap_mem_dev_use(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
polaris_sparrow_psu_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
    )

# On Blackheart platform: /dev/shm/sem_dev_i2c_0 sempahor
# Allow access to /tmp/udev/etc/udev/msata/udev-info and /dev/net/tun
# Allow access to /dev/remap_mem0 for alarm port
ifdef(`blackheart_platform',
    gen_require(
        type polaris_cm_cc_tmpfs_t;
    )
    polaris_udev_access(polaris_iosd_t)
polaris_remap_mem_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
)

# handle /tmp/rp/.iosp_client_app token
type polaris_iosp_client_app_token_t;
files_tmp_file(polaris_iosp_client_app_token_t)
files_tmp_filetrans(polaris_iosp_client_app_token_t, file, ".iosp_client_app")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_app_token_t, polaris_iosp_client_app_token_t)

# handle /tmp/rp/.iosp_client_dmi token
type polaris_iosp_client_dmi_token_t;
files_tmp_file(polaris_iosp_client_dmi_token_t)
files_tmp_filetrans(polaris_iosp_client_dmi_token_t, file, ".iosp_client_dmi")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_dmi_token_t, polaris_iosp_client_dmi_token_t)

# handle /tmp/rp/.iosp_dmiauthd token
type polaris_dmiauthd_token_t;
files_tmp_file(polaris_dmiauthd_token_t)
files_tmp_filetrans(polaris_dmiauthd_token_t, file, ".iosp_dmiauthd")
manage_files_pattern(polaris_iosd_t, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

# handle /tmp/rp/.iosp_gnmib token
type polaris_gnmib_token_t;
files_tmp_file(polaris_gnmib_token_t)
files_tmp_filetrans(polaris_gnmib_token_t, file, ".iosp_gnmib")
manage_files_pattern(polaris_iosd_t, polaris_gnmib_token_t, polaris_gnmib_token_t)

polaris_udev_tmp_watch(polaris_iosd_t)

# Interfaces needed for Aventus platform, allow access to
# /dev/shm/sem_dev_i2c_0 sempaphor
# /dev/usb_console for OOB management
# /dev/net/tun
# brctl process needs access to fifo_file
ifdef(`aventus_platform',`
gen_require(
    type brctl_t;
    type polaris_pman_t;
    type polaris_cm_cc_tmpfs_t;
    type ifconfig_t;
    type polaris_i2c_device_t;
)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
allow brctl_t polaris_pman_t:fifo_file append;
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
allow ifconfig_t polaris_i2c_device_t:chr_file { read write }

# allow access and modify files in /tftp/inv directory
# TODO Need to revisit this for further analysis
ifdef('mcp_family','
  gen_require('
    type tftpdir_rw_t;
  ')
read_files_pattern(polaris_iosd_t, tftpdir_rw_t, tftpdir_rw_t)
')

#allow access and modify awips file in /bootflash
gen_require('
  type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_iosd_t polaris_awips_signature_file_t:file { write create read open getattr unlink};

# handle geodb file access
type polaris_geodb_files_t;
polaris_disk_type(polaris_geodb_files_t)
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_geodb_files_t, dir, ".geo")
filetrans_pattern(polaris_iosd_t, polaris_disk_harddisk_t, polaris_geodb_files_t, dir, ".geo")
polaris_geodb_files_manage(polaris_iosd_t)

# handle /var/ip_local_port_range
type polaris_ip_linux_port_var_t;
files_var_file(polaris_ip_linux_port_var_t)
files_var_filetrans(polaris_iosd_t, polaris_ip_linux_port_var_t, file, "ip_local_port_range")

# linux_iosd-imag access to file /var/ip_local_port_range
manage_files_pattern(polaris_iosd_t, var_t, polaris_ip_linux_port_var_t)

# Allow access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_iosd_t)

# command "ls" on /var/ip_local_port_range
gen_require('
  type polaris_shell_t;
')
allow polaris_shell_t polaris_ip_linux_port_var_t:file getattr;

# handling /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt file
# created by iosd by platform resource config command
type polaris_iosd_vcpu_t;
files_type(polaris_iosd_vcpu_t)
gen_require(
    type polaris_disk_csl_p_t;
    type polaris_disk_varied_t;
  
)
filetrans_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t, file, "vcpu_template.txt")
manage_files_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_iosd_t)
fs_search_cgroup_dirs(polaris_iosd_t)
# for Dynamic Core Allocation IOSd needs write access to cpu sets/shares
ifdef(`crankshaft_family',`
    fs_write_cgroup_files(polaris_iosd_t)
  )

# sdwan_admintech_generate() creates admintech and admintech_trace files
gen_require(
    type polaris_admin_tech_data_t;
  )
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech_trace")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_done")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_request")
polaris_admin_tech_data_manage(polaris_iosd_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_iosd_t)
allow polaris_iosd_t polaris_user_file_t:file { open unlink };

#=====================================================================================
# petra platform
ifdef(`petra_platform',`
    # iosd need access to petra fpga
    polaris_iots_fpga_dev_use(polaris_iosd_t)
    # iosd need access to memory devices
    polaris_iots_tm_dev_use(polaris_iosd_t)
    #allow map permission for /dev/shm/TM_A53_APIs
    allow polaris_iosd_t polaris_iosd_tmpfs_t:file map;
    #allow access to polaris_cm_rp_t sem
    polaris_cm_rp_sem_use(polaris_iosd_t)
    #allow access to userio
    dev_rw_userio_dev(polaris_iosd_t)
    allow polaris_iosd_t userio_device_t:chr_file { map };
    #iosd need access to sysfs
    dev_rw_sysfs(polaris_iosd_t)
    allow polaris_iosd_t sysfs_t:file { create map };
    dev_manage_sysfs_dirs(polaris_iosd_t)
    # iosd need access to sdflash files image is stored
    polaris_swipedrive_file_manage(polaris_iosd_t)
polaris_getattr_swipedrive(polaris_iosd_t)
# iosd need access to mmcblk0p3
gen_require('  
type polaris_disk_recovery_t;
')
allow polaris_iosd_t polaris_disk_recovery_t:filesystem getattr;
# iosd need access to mmcblk0p2
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
# iosd need access to /dev/mvDmaDrv
polaris_mvDmaDrv_dev_use(polaris_iosd_t)
# iosd need access to /dev/mvIntDrv
polaris_mvIntDrv_dev_use(polaris_iosd_t)
# iosd need permission for LED
polaris_led_dev_use(polaris_iosd_t)
# iosd need access to rawip socket by initscripts/rc.d/init.d/iptables
allow polaris_iosd_t self:rawip_socket create_socket_perms;
# iosd needs access to /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_iosd_t)
# iosd need permission to /dev/rtc0 done via imsp_update_sw_hwclock()
dev_rw_realtime_clock(polaris_iosd_t)
')
# work with /tmp/usb-disable: create/write
type polaris_iosd_usb_disable_tmp_t;
files_tmp_file(polaris_iosd_usb_disable_tmp_t);
polaris_iosd_usb_disable_tmp_manage(polaris_iosd_t)
ifdef('ngwc_family','
# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_iosd_t)
')
optional_policy('  
polaris_efi_files_list_dirs(polaris_iosd_t)
')
# work with /dev/shm/mq.-iosd_to_timingd
type polaris_iosd_timing_mqipc_t;
polaris_mqipc_type(polaris_iosd_timing_mqipc_t)
polaris_mqipc_create_name(polaris_iosd_t, polaris_iosd_timing_mqipc_t, iosd_to_timingd)
# watch /tmp
allow polaris_iosd_t tmp_t:dir watch;

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# January 2018, Manohar Hungund
#
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#

## <summary>Polaris oct_dp_log_rp Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.if

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#

## <summary>Polaris cedge Policy Rules.</summary>

######################################
## <summary>
##      Manage /tmp/xml files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cedge_xml_tmp_manage',`
    gen_require(`
        type polaris_cedge_xml_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
    manage_files_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
    files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")
    allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton };
    allow $1 polaris_cedge_xml_tmp_t:file map;
    `)
######################################
## <summary>
## Manage /tmp/tmp files and directories

### <param name="domain">

### <summary>

Domain allowed access.

### </summary>

### </param>

interface('polaris_cedge_tmp_manage',
  gen_require('  
    type polaris_cedge_tmp_t;
  ')
  manage_dirs_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
  manage_files_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
  files_tmp_filetrans($1, polaris_cedge_tmp_t, dir, "tmp")
')


## Manage /etc/viptela files and directories

### <param name="domain">

### <summary>

Domain allowed access.

### </summary>

### </param>

#  

interface('polaris_cedge_etc_manage',
  gen_require('  
    type polaris_cedge_etc_t;
  ')
  manage_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
  manage_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
  manage_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
  files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
')


## Read /etc/viptela files and directories

### <param name="domain">

### <summary>

Domain allowed access.

### </summary>

### </param>

#
interface('polaris_cedge_etc_read',
    gen_require('        type polaris_cedge_etc_t;
    ')
    search_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_link_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

###########################################################
## <summary>
##      Watch cedge_etc directories and files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_etc_watch',
    gen_require('        type polaris_cedge_etc_t;
    ')
    allow $1 polaris_cedge_etc_t:{ dir file } watch;
)

###########################################################
## <summary>
##      Read access /var/run/netns/* performed from vip_util_set_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_set_ns',
    init_read_state($1)
    fs_read_nsfs_files($1)
    sysnet_manage_ifconfig_run($1)
)

###########################################################
## <summary>
##      Read access /proc/1/ns/net performed from vip_util_reset_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cedge_reset_ns',
#     init_read_state($1)
# )

######################################
## <summary>
##      Manage /dev/shm viptela files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cedge_tmpfs_manage',
#     gen_require(
#         type polaris_cedge_tmpfs_t;
#         type tmpfs_t;
#     )
#     fs_tmpfs_filetrans($1, polaris_cedge_tmpfs_t, file)
#     manage_files_pattern($1, tmpfs_t, polaris_cedge_tmpfs_t)
#     allow $1 polaris_cedge_tmpfs_t:file map;
# )

######################################
## <summary>
##      Manage /tmp/.econfd2sysmgr-ipc files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_econfd2sysmgr_tmp_manage',
#     gen_require(
#         type polaris_econfd2sysmgr_tmp_t;
#         type tmpfs_t;
#     )
#     manage_dirs_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
#     manage_files_pattern($1, tmpfs_t, polaris_econfd2sysmgr_tmp_t)
#     files_tmp_filetrans($1, polaris_econfd2sysmgr_tmp_t, dir, ".econfd2sysmgr-ipc")
#     allow $1 polaris_econfd2sysmgr_tmp_t:dir watch;
## <summary>
##      Manage /tmp/* labeled with polaris_vconfd_cert_tmp_t 
##             for vconfd_script_upload_root_ca_crt_chain.sh to access
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_vconfd_cert_tmp_manage',
gen_require(
type polaris_vconfd_cert_tmp_t;
')
manage_dirs_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
manage_files_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
')

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#
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#
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#

## <summary>Polaris cpp_driver Policy Rules.</summary>

## <summary>
##      Allow access to semaphore with type polaris_cpp_driver_t 
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_driver_sem_use',
  gen_require(
  type polaris_cpp_driver_t;
  ')
)
allow $1 polaris_cpp_driver_t:sem rw_sem_perms;
')

******************************************************************************
## <summary>
## Allow access to shared memory with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cpp_driver_shm_use',`
    gen_require(`
        type polaris_cpp_driver_t;
    `)
    allow $1 polaris_cpp_driver_t:shm rw_shm_perms;
`)

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#
#
## <summary>Polaris polarisautoupgrade Policy Rules.</summary>

******************************************************************************
## <summary>
## Execute auto-upgrade scripts in their own domain
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface('polaris_autoupgrade_domtrans',`
    gen_require(`
        type polaris_autoupgrade_t;
    `)
    type polaris_autoupgrade_exec_t;
domtrans_pattern($1, polaris_autoupgrade_exec_t, polaris_autoupgrade_t)
'

########################################
## <summary>
##      Manage tmp files created by autoupgrade.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface(`polaris_autoupgrade_tmp_manage',`
       gen_require(`
           type polaris_autoupgrade_tmp_t;
       `)

manage_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_lnk_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_fifo_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
')

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#
# October 2019, Patrick O'Halloran
#
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#
## <summary>Polaris CRFT Policy Rules.</summary>

# CRFT policy

# CRFT policy

# <summary>
#      Allow read-only access to CRFT generated files
# </summary>
# <param name="domain">
## Domain allowed access.

### <param name="file_type">

File type of crft that corresponds to given domain.

### </param>

### <rolebase/>

```
interface(`polaris_crft_data_read',`
    gen_require(`
        type polaris_crft_data_t;
        type polaris_crft_request_t;
        type polaris_crft_request_crft_t;
    `)

    read_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
    polaris_disk_bootflash_read_lnk($1)
    polaris_disk_harddisk_read_lnk($1)
    read_files_pattern($1, polaris_crft_request_crft_t, polaris_crft_request_crft_t)
    allow $1 polaris_crft_request_t:fifo_file { ioctl write }
    `)

#######################################

## Manage crft persistent files

### <param name="domain">

Domain allowed access.

### </param>

### <rolebase/>

```
interface(`polaris_crft_data_manage',`
    gen_require(`
        type polaris_crft_data_t;
    `)

    manage_dirs_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
    manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
    manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)

    # Note: Based on discussion with SELinux team, we need to call this
    # out specifically here for lnk file access, as:
    # - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
    polaris_disk_bootflash_read_lnk($1)
```
polaris_disk_harddisk_read_link($1)
allow $1 polaris_crft_data_t:file map;
'}

*****************************************************************************
## <summary>
## Manage crft files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_crft_data_manage_all',`
   polaris_crft_data_manage($1)

   gen_require(`
      attribute polaris_crft_data_domain;
      type polaris_crft_data_t;
   ')

   manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
   manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
   allow $1 polaris_crft_data_domain:file map;
')

*****************************************************************************
## <summary>
## Make the specified type usable as crft data file type.
## </summary>
## <param name="type">
## Type to be used for files.
## </param>
## <rolebase/>
#
interface(`polaris_crft_data_type',`
   files_type($1)
   polaris_pfile_type($1)
   gen_require(`
      attribute polaris_crft_data_domain;
   ')
   typeattribute $1 polaris_crft_data_domain;
')

*****************************************************************************
## <summary>
##      Process to manage its own crft files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="file_type">
##      <summary>
##      File type of crft that corresponds to given domain.
##      </summary>
## </param>
#
interface(`polaris_crft_data_client', `
      gen_require(`
          type polaris_crft_data_t;
      `)

      manage_dirs_pattern($1, polaris_crft_data_t, $2)
      manage_files_pattern($1, polaris_crft_data_t, $2)
      manage_lnk_files_pattern($1, polaris_crft_data_t, $2)
      filetrans_pattern($1, polaris_crft_data_t, $2, file)
      allow $1 $2:file map;
      `)

###############################
## <summary>
##      Process to manage its own crft files
## </summary>
## <param name="domain_stem">
##      <summary>
##      Steam of domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_crft_data_client_template', `
      gen_require(`
          attribute polaris_crft_data_domain;
          type polaris_crft_data_t;
      `)

      type polaris_$1_crft_t;
      polaris_crft_data_type(polaris_$1_crft_t)
      polaris_crft_data_client(polaris_$1_t, polaris_$1_crft_t)
      `)
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.if
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#

/usr/cpp/bin/cpp_ha_top_level_server -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_us_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlc -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.fc
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#

policy_module(polariscfg, 1.0);

******************************************************************************
# Cfg files policy
******************************************************************************

type polaris_cfg_data_t;
files_type(polaris_cfg_data_t)

gen_require(

attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_cfg_data_t, dir, "cfg")

******************************************************************************
# cfg_sync.sh policy
******************************************************************************
polaris_utility_domain_template(cfg_sync)

polaris_execute_domain(polaris_cfg_sync_t, polaris_cfg_sync_exec_t)

polaris_boot_tmp_read(polaris_cfg_sync_t)
polaris_btrace_data_manage(polaris_cfg_sync_t)
polaris_chasfs_read(polaris_cfg_sync_t)
polaris_cpld_read(polaris_cfg_sync_t)
polaris_use_btrace_fifo(polaris_cfg_sync_t)

corecmd_exec_bin(polaris_cfg_sync_t)
auth_use_nsswitch(polaris_cfg_sync_t)

polaris_bootflash_read(polaris_cfg_sync_t)
polaris_nvram_manage(polaris_cfg_sync_t)
telnet_use_ptys(polaris_cfg_sync_t)

gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_cfg_sync_t, rsync_t)
allow rsync_t polaris_cfg_sync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_cfg_sync_t:fifo_file { write getattr };

logging_send_syslog_msg(polaris_cfg_sync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.te
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# polarisvxeipbaseauto file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_fc.m4
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#
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#
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### <summary>Polaris cm_fp Policy Rules.</summary>

#######################################
### <summary>
###
### Execute cmmand_fp in the polaris_cm_fp_t domain.
###</summary>
###<param name="domain">
###Domain allowed to transition.
###</param>
###</summary>
### </param>
#
# interface('polaris_cm_fp_domtrans',`
generate_require(`
type polaris_cm_fp_t, polaris_cm_fp_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_fp_exec_t, polaris_cm_fp_t)
')

#######################################
### <summary>
### Allow the specified domain to manage cm_fp_tmp files
###</summary>
###<param name="domain">
###Domain allowed access.
###</param>
###</summary>
### </param>
#
# interface('polaris_cm_fp_tmp_manage',`
generate_require(`
type polaris_cm_fp_tmp_t;
type tmp_t;
')

manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)
')

#######################################
### <summary>
### Create objects in /tmp with a polaris_cm_fp_tmp_t type using a type_transition.
###</summary>
###<param name="domain">
###
interface(`polaris_cm_fp_tmp_filetrans',
    gen_require(
        type polaris_cm_fp_tmp_t;
    ')
    files_tmp_filetrans($1, polaris_cm_fp_tmp_t, file, "octeon-remote-lock-pci:0")
')

########################################
## <summary>
##      Allow access to semaphore with type polaris_cm_fp_t
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
# interface(`polaris_cm_fp_sem_use',
    gen_require(
        type polaris_cm_fp_t;
    ')
    allow $1 polaris_cm_fp_t:sem rw_sem_perms;
')

########################################
## <summary>
##      Allow access to shared memory with type polaris_cm_fp_t
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
# interface(`polaris_cm_fp_shm_use',
    gen_require(
        type polaris_cm_fp_t;
    ')
    allow $1 polaris_cm_fp_t:shm rw_shm_perms;
')

########################################################################
## <summary>
Allow access to /dev/hkp with type polaris_cm_fp_t
</summary>
@param name="domain">
  Domain allowed access.
</param>

interface(`polaris_hkp_dev_use',`
  gen_require(
    type device_t;
    type polaris_hkp_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_hkp_device_t)
  read_chr_files_pattern($1, device_t, polaris_hkp_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.if
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#
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#
#
# polarisifmgr file contexts place holder

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#
#
## <summary>Polaris crankshaft Platform Policy Rules.</summary>

# Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices
**)&summary>
## <summary>
## Domain allowed access.
## </summary>

```c
interface('polaris_bde_dev_use',``
gen_require(`
    type device_t;
    type polaris_bde_device_t;
')
write_chr_files_pattern($1, device_t, polaris_bde_device_t)
read_chr_files_pattern($1, device_t, polaris_bde_device_t)
allow $1 polaris_bde_device_t:chr_file map;
')
```

## <summary>
## Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>

```c
interface('polaris_dash_dev_use',``
gen_require(`
    type device_t;
    type polaris_dash_device_t;
')
write_chr_files_pattern($1, device_t, polaris_dash_device_t)
read_chr_files_pattern($1, device_t, polaris_dash_device_t)
allow $1 polaris_dash_device_t:chr_file map;
')
```

## <summary>
## Work (read, write, ioctl) with /dev/huron_fpga device
## </summary>

```c
interface('polaris_huron_dev_use',``
gen_require(`
    type device_t;
')
```
type polaris_huron_device_t;

write_chr_files_pattern($1, device_t, polaris_huron_device_t)
read_chr_files_pattern($1, device_t, polaris_huron_device_t)
allow $1 polaris_huron_device_t:chr_file map;

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/dplr_sumatra
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//param>
#
# interface('polaris_sumatra_doppler_dev_use',`
  gen_require(`
    type device_t;
    type polaris_sumatra_doppler_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
  read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
  allow $1 polaris_sumatra_doppler_device_t:chr_file map;
`)

######################################
## <summary>
##      Work (open, read, write, ioctl) with /dev/sirius_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//param>
#
# interface('polaris_sirius_fpga_dev_use',`
  gen_require(`
    type device_t;
    type polaris_siriusfpga_device_t;
  `)
  rw_chr_files_pattern($1, device_t, polaris_siriusfpga_device_t);
`)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/nios device
## </summary>

## <summary>
## Domain allowed access.
## </summary>

```c
#
interface('polaris_nios_dev_use',
    gen_require(''
        type device_t;
type polaris_nios_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_nios_device_t)
    read_chr_files_pattern($1, device_t, polaris_nios_device_t)
)

##########################################
## Work (read, write, ioctl) with /dev/qae_mem device
## Domain allowed access.
##
## interface('polaris_qae_dev_use',
    gen_require(''
        type device_t;
type polaris_qae_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_qae_device_t)
    read_chr_files_pattern($1, device_t, polaris_qae_device_t)
    
    ')  

##########################################
## Read mokafpga files in /sys/devices/platform directory
## Domain allowed access.
##
## interface('polaris_mokafpga_read',
    gen_require(''
        type polaris_sysfs_mokafpga_t;
```
type sysfs_t;
)
read_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
)

###############################
## <summary>
##      Read/Write mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_mokafpga_rw',
    gen_require(
        type polaris_sysfs_mokafpga_t;
        type sysfs_t;
    )
    rw_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
    list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
)

###############################
## <summary>
##      Work (read, write, ioctl) with /dev/moka_fpga
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_mokafpga_dev_use',
    gen_require(
        type device_t;
        type polaris_mokafpga_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
)

###############################
## <summary>
##      Work (read, write, ioctl) with /dev/nim_dm_0_1 and /dev/nim_dm devices
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# Interface for Virtual Machine Installation

## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>

```c
interface('polaris_nim_dm_dev_use',

    gen_require('type device_t;
type polaris_nim_dm_device_t;
')

    write_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
    read_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
    allow $1 polaris_nim_dm_device_t:chr_file map;
    allow $1 device_t:chr_file map;

')
```

## <summary>
## Execute a domain transition to run load_usbnet.sh.
## </summary>

```c
interface('polaris_load_usbnet_domtrans',

    gen_require('type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
')

domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
```

## <summary>
## Label and allow access to i2c semaphore files.
## </summary>

```c
interface('polaris_i2c_sem_manage',

    gen_require('type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
')
```
gen_require('  
  type tmpfs_t;  
  type polaris_cm_cc_tmpfs_t;  
')
manage_files_pattern($1, tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
'

######################################
## <summary>
## Work (read, write, ioctl) with /dev/bp_async device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_bp_async_dev_use',
  
  gen_require('  
    type device_t;  
    type polaris_bp_async_device_t;  
  ')
  
  write_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
  read_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
  allow $1 polaris_bp_async_device_t:chr_file map;
')

######################################
## <summary>
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_udev_access',
  
  gen_require('  
    type tmpfs_t;  
    type polaris_udev_tmp_files_t;  
  ')
  
  manage_files_pattern($1, tmpfs_t, polaris_udev_tmp_files_t)
')

## <summary>
## Work (read, write, ioctl) with /dev/sparrow_psu device
# Interface `polaris_sparrow_psu_dev_use`

```c
interface('polaris_sparrow_psu_dev_use',
    gen_require('type device_t;
    type polaris_sparrow_psu_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
    read_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
)
```

# Interface `polaris_nutella_fpga_dev_use`

```c
interface('polaris_nutella_fpga_dev_use',
    gen_require('type device_t;
    type polaris_nutella_fpga_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
)
```

# Interface `polaris_qcqm_dev_use`

```c
interface('polaris_qcqm_dev_use',
    gen_require('type device_t, qcqm_device_t;
')
```
rw_chr_files_pattern($1, device_t, qccmi_device_t)

### <summary>
### Work (read, write, ioctl) with /dev/sm_nim_adpt device files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_sm_nim_adpt_dev_use',
gen_require(''
    type device_t;
type polaris_sm_nim_adpt_device_t;
')
write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
read_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
allow $1 polaris_sm_nim_adpt_device_t:chr_file map;
')

### <summary>
### Work (read, write, ioctl) with /dev/dio-*
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_dio_dev_use',
  gen_require(''
    type device_t;
type polaris_dio_device_t;
')
write_chr_files_pattern($1, device_t, polaris_dio_device_t)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
allow $1 polaris_dio_device_t:chr_file map;
')
## Read /dev/dio-*
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dio_dev_read',
    gen_require(
        type device_t;
        type polaris_dio_device_t;
    ')
    read_chr_files_pattern($1, device_t, polaris_dio_device_t)
')

########################################################################
## Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_tty_NMEA_dev_use',
    gen_require(
        type device_t;
        type polaris_tty_NMEA_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    allow $1 polaris_tty_NMEA_device_t:chr_file map;
')

########################################################################
## Read /dev/ttyNMEA* and /dev/ttyTunNMEA*
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_tty_NMEA_dev_read',
    gen_require('
type device_t;

type polaris_tty_NMEA_device_t;

')

read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/nim_phy
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface('polaris_nim_phy_dev_use',
# gen_require(''
# type device_t;
# type polaris_nim_phy_device_t;
# ')
# rw_chr_files_pattern($1, device_t, polaris_nim_phy_device_t)
# allow $1 polaris_nim_phy_device_t:chr_file map;
#')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.if
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dnl
dnl c8kv Platform Max Bay Limits
dnl max_bay_map_set('rp', `per_bay', 0)
dnl max_bay_map_set('cc', `per_bay', 3)
dnl max_bay_map_set('fp', `per_bay', 0)

dnl max_bay_ripc_map_set('rp', `per_bay', 0)
dnl max_bay_ripc_map_set('cc', `per_bay', 3)
dnl max_bay_ripc_map_set('fp', `per_bay', 0)

dnl max_bay_ripc_map_set('rp', `global', 0)
dnl max_bay_ripc_map_set('cc', `global', 3)
dnl max_bay_ripc_map_set('fp', `global', 0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/c8kvmaps.m4
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#

/#bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key/pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)

/#objstore/.swtam for hybrid TAM access
/objstore(/.*)?  gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

/cs1_p_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/cs1_p_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/cs1_s_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/cs1_s_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)?  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

/# not really a license file stored by iosd during platform resource config command
/cs1_p_0/vcpu_template.txt  gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

/# nvram devices
/dev/bootflash2 -b  gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/bootflash3 -b  gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda2  -b  gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda3  -b  gen_context(system_u:object_r:polaris_nvram_file_t,s0)

/dev/linux-user-bde -c  gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/linux-kernel-bde -c  gen_context(system_u:object_r:polaris_bde_device_t,s0)

/dev/dash_fpga -c  gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c  gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc1 -c  gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc2 -c  gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc3 -c  gen_context(system_u:object_r:polaris_dash_device_t,s0)
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/dev/dash_fpga_nios -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/huron_fpga -c gen_context(system_u:object_r:polaris_huron_device_t,s0)
/dev/dplr_sumatra -c gen_context(system_u:object_r:polaris_sumatra_doppler_device_t,s0)
/dev/nios -c gen_context(system_u:object_r:polaris_nios_device_t,s0)
/dev/qae_mem -c gen_context(system_u:object_r:polaris_qae_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# moka fpga
/dev/moka_fpga -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
/dev/moka_fpga_cc -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)

# for load usbnet module
/usr/binos/conf/load_usbnet.sh -- gen_context(system_u:object_r:polaris_load_usbnet_exec_t,s0)
/dev/nim_dm -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_dm_0_1 -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_phy -c gen_context(system_u:object_r:polaris_nim_phy_device_t,s0)

# file-system on blackheart/sparrow
# /crashinfo is symbolic link to /flash1
/crashinfo                       gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

# /flash is symbolic link to /flash1
/flash                              gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /flash0 NVRAM
/flash0(/.*)?                   gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 Bootflash
/flash1(/.*)?                        gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/tracelogs(/.*)?           gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/.geo(/.*)?                 gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/flash1/.USWAP(/.*)?               gen_context(system_u:object_r:polaris_uswap_files_t,s0)
/flash1/.dbpersist(/.*)?           gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/debug.conf --              gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/flash1/packages.conf              gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/flash1/core(/.*)?                 gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/.rollback_timer(/.*)?      gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/flash1/installer(/.*)?            gen_context(system_u:object_r:polaris_disk_install_t,s0)
# Issue 4.8.1

/tcp/ssh/.*
/tcp/ssh/ssh_host.*_key
/tcp/ssh/ssh_host.*_key \n
# /flash/ OBFL
/flash3/.*
/flash3/OBFL/.*

# harddisk
/vol/harddisk/.*
/mnt/msata/.*

# for usage by IOx
/vol/usb1/.*

# Nvram symlink on Aventus platform
/aventus_config/nvram

# Nvram symlink on Cabo platform
/cabo_config/nvram

# Device applicable to Betelgeuse platform
/dev/sirius_fpga

# Device applicable to Nanook platform
/dev/bp_async -c

# Device applicable to Sparrow platform
/dev/remap_mem0 -c
/dev/sparrow_psu -c
/dev/dio-upstream -c
/dev/ttyNMEA[0-1] -c
/dev/ttyTunNMEA[0-1] -c

# Device applicable to Nutella platform
/dev/nutella_fpga -c

Only qcqmi0 and qcqmi1 are generated for Telit/SWI modems
/dev/qcqmi0 -c
/dev/qcqmi1 -c
#SM NIM Adpater Switzer-CC device files
/dev/sm_nim_adpt_fpga_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_fpga_2 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)

# CLI: show platform hardware msata
/usr/bin/os/bin/msata_info.sh -- gen_context(system_u:object_r:polaris_msata_info_exec_t,s0)
/tmp/sata_status -- gen_context(system_u:object_r:polaris_sata_status_tmp_t,s0)

# Memory blocks and gpp for Nutella platform
/dev/mmcblk0gp0p1 gen_context(system_u:object_r:polaris_nutella_gp0_t,s0)
/gpp gen_context(system_u:object_r:polaris_nutella_gpp_t,s0)

# CLI: show platform hardware slot p[x] fan eeprom
/usr/bin/os/conf/mcp_fan_eeprom_cmd.sh -- gen_context(system_u:object_r:polaris_smart_fan_exec_t,s0)
/var/run/cwan_ezmanage_cwan_server -- gen_context(system_u:object_r:polaris_cwan_svr_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.fc
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#
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#
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#

policy_module(polariscmfp, 1.0);

gen_require(`
    type polaris_cm_fp_t;
`)

polaris_btrace_data_manage(polaris_cm_fp_t)
polaris_crft_data_manage(polaris_cm_fp_t)
polaris_chasfs_manage(polaris_cm_fp_t)
polaris_tdlresolve_read(polaris_cm_fp_t)
polaris_tdlldb_list_dirs(polaris_cm_fp_t)
polaris_cpld_read(polaris_cm_fp_t)
polaris_flashlib_read(polaris_cm_fp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_fp_t)
polaris_cpld_dev_use(polaris_cm_fp_t)
polaris_proc_rmonbifo_read(polaris_cm_fp_t)
polaris_obf1_data_read(polaris_cm_fp_t)
polaris_persistent_list_dirs(polaris_cm_fp_t)
polaris_chasync_files_manage(polaris_cm_fp_t)

# cman_fp creates /tmp/cpp_anon_db file, instead of adding it to polaris_cpp_domain
# let us just grant access to cpp tmp files
polaris_cpp_tmp_files_use(polaris_cm_fp_t, "cpp_anon_db")
# on 1ng works with /dev/cpp
polaris_cpp_dev_use(polaris_cm_fp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_fp_t)

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479556298.842:11): avc: denied { getattr } for pid=5464 comm="cman_fp"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_fp_t:s0
tcontext=system_u:object_r:sysfs_t:s0
tclass=file
# type=AVC msg=audit(1479556298.842:12): avc: denied { read write } for pid=5464 comm="cman_fp"
name="eeprom" dev="sysfs" ino=25556
ccontext=system_u:system_r:polaris_cm_fp_t:0
tcontext=system_u:object_r:sysfs_t:s0
tclass=file
device_dev_sysfs(polaris_cm_fp_t)

polaris_icc_broken_relocations(polaris_cm_fp_t)

allow polaris_cm_fp_t self:udp_socket { create ioctl };

# cman_fp can start dyncfg_setup.sh, allow its transition to dyncfg_t type
polaris_dyncfg_domtrans(polaris_cm_fp_t)

# on 1ng cman_fp write into /bootflash/crypto/octeon_pci_console_dev0_20170723_075412.log
polaris_bootflash_manage(polaris_cm_fp_t)

polaris_disk_harddisk_read_lnk(polaris_cm_fp_t)

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_cm_fp_t)
kernwrite_proc_files(polaris_cm_fp_t)

# cm_fp tmp files like /tmp/octeon-remote-lock-pci:0
type polaris_cm_fp_tmp_t;
files_tmp_file(polaris_cm_fp_tmp_t)
polaris_cm_fp_tmp_filetrans(polaris_cm_fp_t)
polaris_cm_fp_tmp_manage(polaris_cm_fp_t)
# besides /tmp/octeon-remote-lock-pci:0 all other files in /tmp
# are ours
files_tmp_filetrans(polaris_cm_fp_t, polaris_cm_fp_tmp_t, file)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCv55517)
ifdef(`crankshaft_family',
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in dopler SDK remove after
# CSCvm34516 is fixed using CSCvm34630
ifdef(`starfleet_platform',
polaris_dev_mem_use(polaris_cm_fp_t)
')

# "show platform hardware slot F0 eobc interface standby rmon" leads to
# ioctl() call from cmplib_get_eobc_drv_info().
kernel_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobc interface standby rmon"
kernel_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef(`mcp_family',
polaris_dyncfg_setup(polaris_cm_fp_t)
')

allow polaris_cm_fp_t self:capability dac_override;

polaris_obfl_data_manage(polaris_cm_fp_t)

allow polaris_cm_fp_t self:netlink_route_socket rw_netlink_socket_perms;

ifdef(`ngwc_family',
# cmfp_asic_mmap_func() function in cmfp module uses
# /dev/chdrvmmmap for asic memory mapping
polaris_chdrvmmmap_dev_use(polaris_cm_fp_t)

# on macallan cman_fp needs access to /dev/cisco/dplriomem
# for mappin dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_cm_fp_t);

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t);
')

optional_policy(''
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_cm_fp_t)
')

# on starfleet need access to
# /sys/device/platform/cpld/reg_fan_control
polaris_cpld_write(polaris_cm_fp_t)

# /dev/shm/SDM access
optional_policy(''
polaris_sdm_shm_manage(polaris_cm_fp_t)
')

logging_send_syslog_msg(polaris_cm_fp_t)

# /dev/epactrlN on qwlc
optional_policy(''
polaris_epa_dev_use(polaris_cm_fp_t)
')

# /dev/astro on qwlc
optional_policy(''
polaris_astro_dev_use(polaris_cm_fp_t)
')

# /dev/cpp_il on qwlc
optional_policy(''
polaris_cpp_il_dev_use(polaris_cm_fp_t)
')

# on radium need to get model info
optional_policy(''
polaris_dash_dev_use(polaris_cm_fp_t)
')

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(''
polaris_cpp_cavium_dma_map(polaris_cm_fp_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_fp_t)
optional_policy('  
# betelgeuse need access to /dev/sirius_fpga
polaris_sirius_fpga_dev_use(polaris_cm_fp_t)
')

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy('  
polaris_serdes_asic_key_tmp_manage(polaris_cm_fp_t)
')

type polaris_hkp_device_t;
dev_node(polaris_hkp_device_t)

# access /dev/iocp0
optional_policy('  
polaris_spa_dev_use(polaris_cm_fp_t)
')

optional_policy('  
# access /dev/hkp
polaris_hkp_dev_use(polaris_cm_fp_t)

polaris_n2_dev_use(polaris_cm_fp_t)
polaris_cy2213_dev_use(polaris_cm_fp_t)
polaris_ddr_dev_use(polaris_cm_fp_t)
polaris_vega_dev_use(polaris_cm_fp_t)
')

polaris_firmware_read(polaris_cm_fp_t)

# allow access to /csl_p_0/vcpu_template.txt
polaris_iosd_vcpu_read(polaris_cm_fp_t)

# allow Cabo access to i2c semaphores
ifdef(`cabo_platform',`
polaris_i2c_sem_manage(polaris_cm_fp_t)
')

ifdef(`sumatra_platform',`
# access huron fpga on sumatra
polaris_huron_dev_use(polaris_cm_fp_t)
')

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  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.te
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#
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#

# polarisezmancc file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.fc
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policy_module(polarisripc, 1.0);

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# polarisripc file contexts place holder

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl divert(-1)

include('polaris_process.m4')
include('polaris_process_fc.m4')
include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_fc.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_fc.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_fc.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_fc.m4
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#
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#
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#

policy_module(polarisstorage, 1.0);

##############################################################################
# Persistent storage policy
##############################################################################
attribute polaris_disk;

# Default disk types
type polaris_disk_bootflash_t;
polaris_disk_type(polaris_disk_bootflash_t)

type polaris_disk_varied_t;
polaris_disk_type(polaris_disk_varied_t)
type polaris_disk_harddisk_t;
polaris_disk_type(polaris_disk_harddisk_t)

type polaris_disk_csl_p_t;
polaris_disk_type(polaris_disk_csl_p_t)

type polaris_disk_csl_s_t;
polaris_disk_type(polaris_disk_csl_s_t)

type polaris_disk_objstore_t;
polaris_disk_type(polaris_disk_objstore_t)

type polaris_disk_crashinfo_t;
polaris_disk_type(polaris_disk_crashinfo_t)

type polaris_disk_license_t;
polaris_disk_type(polaris_disk_license_t)

type polaris_disk_ucode_t;
polaris_disk_type(polaris_disk_ucode_t)

type polaris_disk_recovery_t;
polaris_disk_type(polaris_disk_recovery_t)

type polaris_disk_config_t;
polaris_disk_type(polaris_disk_config_t)

# Persistent files types
type polaris_system_report_t;
polaris_pfile_type(polaris_system_report_t)

type polaris_core_file_t;
polaris_pfile_type(polaris_core_file_t)

type polaris_debug_conf_t;
polaris_pfile_type(polaris_debug_conf_t)

type polaris_packages_conf_t;
polaris_pfile_type(polaris_packages_conf_t)

type polaris_grub_efi_t;
polaris_pfile_type(polaris_grub_efi_t)

# we label .ssh files residing on persistent storage as ssh_home_t
# and sshd_key_t
#
# below statement could/should be moved into ssh te file?
gen_require('
type ssh_home_t;
  type sshd_key_t;
')
polaris_disk_type(ssh_home_t)
polaris_disk_type(sshd_key_t)

# handling /bootflash directory - created by systemd unit, note normally
# something will be mounted on top of it, but in some cases like RP2 line
# cards it will be ramfs directory.
gen_require('  type root_t;
    type unconfined_service_t;
')
filetrans_pattern(unconfined_service_t, root_t, polaris_disk_bootflash_t, dir, "bootflash")

# nfsd accesses different persistent storage directories and it needs getattr
gen_require('  type nfsd_t;
')
polaris_persistent_getattr(nfsd_t)

# on qwl /misc/scratch symbolic link created by systemd-tmpfile, but then
# removed and recreated by harddisk mount systemd unit
gen_require('  type unconfined_service_t;
    type mnt_t;
')
filetrans_pattern(unconfined_service_t, mnt_t, polaris_disk_bootflash_t, lnk_file, "scratch")

gen_require('  type polaris_confd_t;
    type tmp_t;
')
filetrans_pattern(polaris_confd_t, tmp_t, polaris_packages_conf_t, file, "packages.conf")

# first time creation of /bootflash/core directory
gen_require('  type initrc_t;
    type init_t;
')
filetrans_pattern([initrc_t init_t unconfined_service_t], [polaris_disk_bootflash_t polaris_disk_harddisk_t] , polaris_core_file_t, dir, "core")

gen_require('  type init_t;
')
files_tmp_filetrans(init_t, polaris_packages_conf_t, file, "packages.conf")
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.te
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#
/usr/bin/os/conf/run_ioxn_gs_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.fc
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#
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#
/usr/cpp/bin/cpp_sp_svr -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.fc
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#
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#
## <summary>Polaris Btrace Policy Rules.</summary>

# Btrace policy

########################################################
# Btrace policy
########################################################

########################################################
## <summary>
## Manage btrace auxiliary files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_data_manage',
  gen_require(''
    type polaris_btrace_base_t;
    type polaris_btrace_tmpfs_t;
    type tmpfs_t;
  ')

  manage_dirs_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

  # work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
  polaris_btrace_tmppub_manage($1)

  fs_tmpfs_filetrans($1, polaris_btrace_tmpfs_t, file, "oper_uuid_shm")
  manage_files_pattern($1, tmpfs_t, polaris_btrace_tmpfs_t)
  allow $1 polaris_btrace_tmpfs_t:file map;
')

#*******************************************************************************
## <summary>
## Manage temporary (not yet persistent) btrace files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_data_manage_all',
  polaris_btrace_data_manage($1)
  gen_require(''
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
  ')

  manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
allow $1 polaris_btrace_data_domain:file map;

# create temporary files in trace directory
manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# watch btrace data directory for changes
allow $1 polaris_btrace_base_t:dir watch;
')

##########################################
## <summary>
##      Manage btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_manage',
gen_require('type polaris_btrace_data_t;
')

manage_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
manage_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

##########################################
## <summary>
##      Read btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_read',
gen_require('type polaris_btrace_data_t;
')

search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
read_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

########################################################
## <summary>
## Search btrace persistent files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_search',`
  gen_require(`
    type polaris_btrace_data_t;
  ')

  search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

########################################################
## <summary>
## Search tracelogs directions in bootflash, harddisk or crashinfo
directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_search_tracelogs',`
  gen_require(`
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
  ')

  search_dirs_pattern($1, polaris_disk_harddisk_t, polaris_btrace_data_t)
  search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_btrace_data_t)
  search_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_btrace_data_t)
')

########################################################
## <summary>
## Manage btrace boot level config files

```c
interface(`polaris_btrace_lvl_config_manage',`
    gen_require(`
        type polaris_btrace_lvl_config_t;
        type polaris_btrace_data_t;
    `)
)

manage_dirs_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
manage_files_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
    filetrans_pattern($1, polaris_btrace_data_t, polaris_btrace_lvl_config_t, dir, "level_config")

    polaris_btrace_search_tracelogs($1)
    
polaris_disk_bootflash_read_lnk($1)
    polaris_disk_harddisk_read_lnk($1)
    polaris_disk_crashinfo_read_lnk($1)
')
```

## Read ldb_tmp btrace meta data files

```c
interface(`polaris_btrace_ldb_tmp_read',`
    gen_require(`
        type polaris_ldb_tmp_t;
    `)
)

    read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
')
```

```c

class polaris_disk_t {
    char *path;
    char *device;
    char *type;
    char *status;
    char *shortname;
    char *longname;
    char *model;
    char *serial;
    char *firmware;
    char *vendor;
    char *product;
    char *checksum;
    char *comment;
    char *description;
    char *filename;
    char *filename2;
    char *filename3;
    char *filename4;
    char *filename5;
    char *filename6;
    char *filename7;
    char *filename8;
    char *filename9;
    char *filename10;
    char *filename11;
    char *filename12;
    char *filename13;
    char *filename14;
    char *filename15;
    char *filename16;
    char *filename17;
    char *filename18;
    char *filename19;
    char *filename20;
};

struct polaris_btrace_data_t {
    char *name;
    char *value;
    char *comment;
    char *description;
    char *filename;
    char *filename2;
    char *filename3;
    char *filename4;
    char *filename5;
    char *filename6;
    char *filename7;
    char *filename8;
    char *filename9;
    char *filename10;
    char *filename11;
    char *filename12;
    char *filename13;
    char *filename14;
    char *filename15;
    char *filename16;
    char *filename17;
    char *filename18;
    char *filename19;
    char *filename20;
};
```
## Read and write all btrace or pman fifo file, used as standard input/output.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param>
## <rolecap/>
#
interface('polaris_use_btrace_fifo',
gen_require('type polaris_fifo_stdout_t;
')
allow $1 polaris_fifo_stdout_t:fifo_file { rw_term_perms lock append create unlink getattr };

# For pmanlite, allow pmans grand-children to be able to operate on pipe created by pman.
polaris_use_pman_fifo($1)
')

########################################################################
## Execute create_luid_file_db in the its domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_create_ldb_domtrans',
gen_require('type polaris_create_ldb_t, polaris_create_ldb_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_create_ldb_exec_t, polaris_create_ldb_t)
')

########################################################################
## Make the specified type usable as btrace data file type.
## </summary>
## <param name="type">
## Type to be used for files.
# Process to manage its own btrace files

## Domain allowed access.

## File type of btrace that corresponds to given domain.

## all clients check for /tmp/rp/trace/publish/timed/enabled control

# file presense, created by btman, may need its own type

@open_source_used_in_field_network_director_for_virtual_machine_installation_4.8.1

```c
interface('polaris_btrace_data_type',
  files_type($1)
  gen_require(
    attribute polaris_btrace_data_domain;
  )
  typeattribute $1 polaris_btrace_data_domain;
 )

interface('polaris_btrace_data_client',
  gen_require(
    type polaris_btrace_base_t;
  )
  manage_files_pattern($1, polaris_btrace_base_t, $2)
  manage_lnk_files_pattern($1, polaris_btrace_base_t, $2)
  filetrans_pattern($1, polaris_btrace_base_t, $2, { file lnk_file })
  gen_require(
    type polaris_btman_bt_t;
  )
  getattr_files_pattern($1, polaris_btrace_base_t, polaris_btman_bt_t)

  allow $1 $2:file map;
 )
```
## Process to manage its own btrace files

- **<param name="domain_stem">**
  - **<summary>**
  - Steam of domain allowed access.
  - **</summary>**
- **</param>**
- **<rolebase/>**

```c
interface(`polaris_btrace_data_client_template',
  gen_require(
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
  )

    type polaris_$1_bt_t;
    polaris_btrace_data_type(polaris_$1_bt_t)

    polaris_btrace_data_client(polaris_$1_t, polaris_$1_bt_t)
  )
```

- **<summary>**
- **Execute mcp_trace_request.sh in its domain.**
- **</summary>**
- **<param name="domain">**
  - **<summary>**
  - Domain allowed to transition.
  - **</summary>**
- **</param>**

```c
interface(`polaris_trace_request_domtrans',
  gen_require(
    type polaris_trace_request_t, polaris_trace_request_exec_t;
  )

  corecmd_search_bin($1)
  domtrans_pattern($1, polaris_trace_request_exec_t, polaris_trace_request_t)
  )
```

- **<summary>**
- **Watch btrace directories**
- **</summary>**
- **<param name="domain">**
  - **<summary>**
  - Domain allowed access.
  - **</summary>**
policy_module(polaristamsrp, 1.0);

gen_require('  
    type polaris_tams_rp_t;
  ')

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crft_data_manage(polaris_tams_rp_t)
polaris_chasfs_manage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdldb_list_dirs(polaris_tams_rp_t)
polaris_flashlib_read(polaris_tams_rp_t)
polaris_cpld_read(polaris_tams_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_tams_rp_t)

# tams_tamc_tipc_listener_init function create tipc socket
allow polaris_tams_rp_t self:socket { bind create listen accept getattr read write };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.te
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisiomd, 1.0);

gen_require('  
   type polaris_iomd_t;
')
polaris_btrace_data_manage(polaris_iomd_t)
polaris_crft_data_manage(polaris_iomd_t)
polaris_chasfs_manage(polaris_iomd_t)
polaris_tdlresolve_read(polaris_iomd_t)
polaris_tldldb_list_dirs(polaris_iomd_t)
polaris_cpld_read(polaris_iomd_t)
polaris_flashlib_read(polaris_iomd_t)
polaris_ripc_sman_ui_serv_connect(polaris_iomd_t)
polaris_db_tldldb_dir_use(polaris_iomd_t)
polaris_dyncfg_tmp_read(polaris_iomd_t)
optional_policy('  
polaris_spa_dev_use(polaris_iomd_t)
')

# allow objstore access
polaris_disk_objstore_read(polaris_iomd_t)
polaris_ngio_dev_use(polaris_iomd_t)

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
  type polaris_iomd_tmpfs_t;
files_tmpfs_file(polaris_iomd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iomd_t, polaris_iomd_tmpfs_t)
manage_files_pattern(polaris_iomd_t, tmpfs_t, polaris_iomd_tmpfs_t)
# sem_open through where_is_shmfs does stat on /dev/shm
fs_getattr_tmpfs(polaris_iomd_t)

# allow /dev/i2c device file
polaris_i2c_use(polaris_iomd_t)

ifdef(`ngwc_family',`
# On Macallan platforms the following api call from iomd process,
# ngmodslot_is_upper_sup_present() does a read access of /dev/cpld
polaris_cpld_dev_read(polaris_iomd_t)
polaris_cpld_dev_use(polaris_iomd_t)

#allow cpp tmp file
polaris_cpp_tmp_files_use(polaris_iomd_t)

# In Macallan cards which use Doppler ASIC,
# IOMD module uses ngmod_doppler_mmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmap device.
polaris_chdrvmmap_dev_use(polaris_iomd_t)

# IOMD module invokes ASIC Scan functionality
# and calls asic_register_intr_handler(), which
# needs to access the doppler MSI devices
# /dev/bsi/Slot[0-9]*/Doppler[0-9]/Group[0-9]
polaris_dplr_dev_use(polaris_iomd_t)
# but above still not enough at some point
# device like /dev/bsi/Slot8/Doppler0/Group0 still
# considered as device_t, not clear need to look a bit more
dev_rw_generic_chr_files(polaris_iomd_t)

# on macallan iomd needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_iomd_t);

# IOMD calls ngmod_obfl_errmssg_app_init() to initialize
# OBFL.
polaris_obfl_data_manage(polaris_iomd_t)

# IOMD fast path code invokes ngmod_fastpath_thread_func(),
# which increases the scheduler priority.
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;

# on macallan iomd needs access to /dev/cisco/fpgaomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_iomd_t);

optional_policy('"
# ASIC related mmap code in IOMD needs to acces PCI scan related
# rescan shm mutex
polaris_cm_cc_tmpfs_manage(polaris_iomd_t)
"
')

# both utah and macallan text relocations in libcpc_common_os.so
ifdef(`crankshaft_family',`
polaris_icc_broken_relocations(polaris_iomd_t)

# Nightwatch switch module needs to access the doppler devices
polaris_dplr_dev_use(polaris_iomd_t)

dev_rw_generic_chr_files(polaris_iomd_t)
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;
')

optional_policy(`
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_iomd_t)
')

optional_policy(`
# on starfleet access gettysburg_fpga
polaris_gettysburg_fpga_dev_use(polaris_iomd_t)
')

type polaris_iomd_tmp_t;
files_tmp_file(polaris_iomd_tmp_t)
manage_dirs_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_files_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_fifo_files_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)

# on macallan MRVL88X5113_DRV_PRINT macro outputs into /tmp/mrvl88x5113.log file
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, file, "mrvl88x5113.log")

logging_send_syslog_msg(polaris_iomd_t)

ifdef(`ngwc_family',`
# from in115050_test_app_thread_create in
# drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
# For macallan in115025_test_app_thread_create in
# drivers/userspace/inphi/dev_ephy_in115025/src/dev_ephy_in115025.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_inphi")

# In case of starfleet fixed the following module creates folder in /tmp
#/drivers/userspace/mrvl_phy/dev_ephy_mrvl88ec808/src/dev_ephy_m88ec808.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_mrvllph")

#allow access to /tmp/serdes_asic_key_dir as this path is used both by
cman_fp for programming DPP serdes and IOMD for programming n/w serdes
optional_policy(`
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)
')

#Doppler E mac creates lockfiles with names following
# the pattern /tmp/nug_asic_key_dir/nug_asic_key_[0-9]_[0-9]_[0-9]_
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "nug_asic_key_dir")

# Doppler ES mac creates lockfiles with names following
# the pattern /tmp/rmt_asic_key_dir/rmt_asic_key_[0-9]_[0-9]_[0-9]_
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "rmt_asic_key_dir")

# from etopus_spawn_serdes_tool_thread in
# bins/platforms/ngwc/doppler_sdk/drivers/serdes/Vendor/src/etopus_serdes.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_etp")

#on starfleet access /dev/cpld, in iomd_starfleet_create_mmap()
polaris_cpld_dev_use(polaris_iomd_t)

optional_policy(
    polaris_ngwc_itfpo_manage(polaris_iomd_t)
)

# ngio device
type polaris_ngio_device_t;
dev_node(polaris_ngio_device_t)

#For NGIO modules iomd uses netlink socket (via backplane switch)
allow polaris_iomd_t self:netlink_socket { bind create };

ifdef(`sumatra_platform',
#on Sumatra access /dev/cpld from iomd
polaris_cpld_dev_use(polaris_iomd_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_iomd_t)
polaris_sumatra_doppler_dev_use(polaris_iomd_t)

#access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_iomd_t)

# manage "sysctrl_i2c.lck"
gen_require(`
    type polaris_cm_rp_tmp_t;
    ')
files_tmp_filetrans(polaris_iomd_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_iomd_t)

# comm="iomd" kmod="netdev-bp246"
kernel_request_load_module(polaris_iomd_t)
# work with /sys/devices/i2c-15/15-0076/...
dev_rw_sysfs(polaris_iomd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
define('polaris_lipc_service_server_many',
  `ifelse($3, `',
    polaris_lipc_create_name(dollarsone, $1, "$2"),
    polaris_lipc_create_name(dollarsone, $1, "$2-b\$3")
  `ifelse($3, 0, `polaris_lipc_create_name(dollarsone, $1, "$2")', `polaris_lipc_service_server_many($1, $2, eval($3 - 1)))')
)

define('polaris_lipc_service_server_aux',
  `ifelse($3, `',
    polaris_lipc_create_name(dollarsone, $1, "$2"),
    polaris_lipc_create_name(dollarsone, $1, "$2-b\$3")
  `ifelse($3, 0, `polaris_lipc_create_name(dollarsone, $1, "$2")', `polaris_lipc_service_server_many($1, $2, eval($3 - 1)))')
)

### <summary>
### Create $2 lipc chanell.
### </summary>
### <param name="domain">
### <infoflow type="none"/>
#
interface(`polaris_lipc_$1_create_name'';
  type $2;
')
  $3
")

### <summary>
### Write $2 lipc chanell.
### </summary>
### <param name="domain">
### <infoflow type="none"/>
### Domain allowed access.
###/summary>
### </param>
### <param name="server">
### <summary>
### Domain of owner of lipc channel.
### </summary>
### </param>
### <infoflow type="none"/>
#
# interface("polaris_lipc_$1_write,``
gen_require(
    type $2;
')

    polaris_lipc_write(dollarsone, $2, dollarstwo)
"
')

define('polaris_lipc_service_server',`dnl
polaris_lipc_service_server_aux(lipc_stem($1), lipc_label($1),
polaris_lipc_service_server_many(lipc_label($1), $5, max_scope_map($3, $4, $2)))')

define('polaris_lipc_service_client',``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_if.m4
No license file was found, but licenses were detected in source scan.
#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisncd, 1.0);

gen_require(
    type polaris_ncd_t;
')

# allow sntp transition in its own domain when started by ncd
ntp_domtrans_ntpdate(polaris_ncd_t)
corecmd_exec_bin(polaris_ncd_t)
corecmd_exec_shell(polaris_ncd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_ncd_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ncd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ncd_t)

# work with /tmp files (/tmp/ncd)
type polaris_ncd_tmp_t;
files_tmp_file(polaris_ncd_tmp_t)
manage_dirs_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_fifo_files_pattern(polaris_ncd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, file)

# create /tmp/ncd and /tmp/etc/ncd_work_dir directories
gen_require(
    type polaris_etc_t;
)
manage_dirs_pattern(polaris_ncd_t, { tmp_t polaris_etc_t }, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, dir, "ncd")
# /tmp/etc/ncd_work_dir
filetrans_pattern(polaris_ncd_t, polaris_etc_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")

# work with /tmp/ncd/inot_fifo
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, fifo_file, "inot_fifo")
manage_fifo_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)

# allow sntp to read out fifo file
gen_require(
    type ntpd_t;
)
read_fifo_files_pattern(ntpd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)

# work with /tmp/ufs directory. the ufs directory can be created
# by both polaris_ncd_t and udev_t subjects (depending upon platform
# logic)
gen_require(
    type udev_t;
    type unconfined_service_t;
)
files_tmp_filetrans( { polaris_ncd_t udev_t unconfined_service_t }, polaris_ncd_tmp_t, dir, "ufs")

polaris_btrace_data_manage(polaris_ncd_t)
polaris_chasfs_manage(polaris_ncd_t)
polaris_cpld_read(polaris_ncd_t)
polaris_proc_rmonbifo_read(polaris_ncd_t)
polaris_rmonbifo_tmp_read(polaris_ncd_t)
polaris_boot_tmp_read(polaris_ncd_t)
polaris_disk_crashinfo_getattr(polaris_ncd_t)
polaris_disk_bootflash_read_lnk(polaris_ncd_t)
polaris_flashlib_lock(polaris_ncd_t)
polaris_flashlib_read(polaris_ncd_t)
polaris_read_debug_conf(polaris_ncd_t)
polaris_read_packages_conf(polaris_ncd_t)

brctl_domtrans(polaris_ncd_t)
sysnet_domtrans_ifconfig(polaris_ncd_t)

# ncd.sh invokes ifup which in turn is calling dhclient
sysnet_domtrans_dhcpc(polaris_ncd_t)

type polaris_ncd_etc_t;
files_config_file(polaris_ncd_etc_t)
gen_require(
        attribute domain;
)
files_etc_filetrans(domain, polaris_ncd_etc_t, file, "mount_data")
manage_dirs_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)
manage_files_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)

# runs exportsfs command
rpc_read_exports(polaris_ncd_t)
rpc_write_exports(polaris_ncd_t)
rpc_manage_nfs_state_data_dir(polaris_ncd_t)
rpc_manage_nfs_state_data(polaris_ncd_t)
fs_rw_nfsd_fs(polaris_ncd_t)
kernellw_rpc_sysctls(polaris_ncd_t)
fs_getattr_xattr_fs(polaris_ncd_t)

# reloads xinetd@/tmp/etc/xinetd.conf.consolidated.service and
# systemctl reload xinetd_brelay@eobc.service
systemd_exec_systemctl(polaris_ncd_t)
systemd_reload_all_services(polaris_ncd_t)
systemd_status_all_unit_files(polaris_ncd_t)

polaris_chvrf_domtrans(polaris_ncd_t)
# ncd process calls ifconfig and route and mcp_chvrf
gen_require(
        type polaris_chvrf_t;
    )
sysnet_domtrans_ifconfig(polaris_chvrf_t)
allow polaris_chvrf_t self:capability net_admin;
allow polaris_chvrf_t self:udp_socket { create ioctl }
allow polaris_ncd_t self:process setpgid;
polaris_persistent_getattr(polaris_ncd_t)

# access to /etc/sysconfig/network-scripts
sysnet_read_config(polaris_ncd_t)

fs_getattr_tmpfs(polaris_ncd_t)

# manage file under /tmp/etc/ncd_work_dir
gen_require('  type initrc_tmp_t;
type initrc_t;
')
filetrans_pattern(polaris_ncd_t, initrc_tmp_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")
polaris_ncd_tmp_manage(polaris_ncd_t)

# /tmp/root/loopback is created by initrc_t, but managed by ncd.sh.
# dynamic label directory "/tmp/root/loopback" as polaris_ncd_tmp_t
files_tmp_filetrans(initrc_t, polaris_ncd_tmp_t, dir, "loopback")

# flashutil has wrong file permission
allow polaris_ncd_t self: capability { dac_override sys_resource };

# access to /tmp/etc/xinetd.conf.consolidated
init_read_script_tmp_files(polaris_ncd_t)

allow polaris_ncd_t self: capability net_admin;

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_ncd_t)

# ncd calls mount to handle nfs directories
mount_domtrans(polaris_ncd_t)

#rsync_exec(polaris_ncd_t)
gen_require('  type rsync_t;
type rsync_tmp_t;
')
rsync_entry_domtrans(polaris_ncd_t, rsync_t)
allow rsync_t polaris_ncd_t: process sigchld;

# file descriptor leak when rsync is called
allow rsync_t polaris_ncd_t: fifo_file write;

# PLEASE LOOK AT ME: probably /tmp/rp/active_epoch deserves its own type
# /tmp/rp/active_epoch on its way to /tmp/chassis/local/rp/chasfs/rp/0/0/epoch
manage_files_pattern(polaris_ncd_t, rsync_tmp_t, rsync_tmp_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ncd_t)
allow polaris_ncd_t self: process setfscreate;
# run /sbin/hwclock in its own domain
clock_domtrans(polaris_ncd_t)
# stdin file descriptor leak when hwclock started
gen_require(
    type hwclock_t;
    ')
allow hwclock_t polaris_ncd_tmp_t:fifo_file read;

ifdef('ngwc_family',
polaris_getattr_filesystem_disk_ucode(polaris_ncd_t)
')

# update /tmp/etc/xinetd.conf.consolidated file
polaris_etc_append(polaris_ncd_t)

# ncd.sh adds entries to /etc/exports file
gen_require(
    type etc_t;
    ')
append_files_pattern(polaris_ncd_t, etc_t, etc_t)

# create and write into /tmp/unifiedfs/unifiedfs_log
manage_files_pattern(polaris_ncd_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
polaris_ncd_rpcinfo_net(polaris_ncd_t)

# accessing /mnt/usb0
fs_search_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ufs_helper_t)

# ncd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
# write/create to "/sys/module/nfs/parameters/nfs4_unique_id"
dev_rw_sysfs(polaris_ncd_t)
dev_manage_sysfs_dirs(polaris_ncd_t)
gen_require(
    type sysfs_t;
    ')
create_files_pattern(polaris_ncd_t, sysfs_t, sysfs_t)

# ps needs access to proc_t
kernel_read_system_state(polaris_ncd_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_ncd_t)

# send signal to ntpd
ntp_signal(polaris_ncd_t)

# ncd.sh executes hostname
hostname_exec(polaris_ncd_t)

# ncd.sh runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_ncd_t)

# handling/usr/binos/conf/iosd_console_attach.sh
polaris_utility_domain_template(console_attach)

polaris_bexecute_domain(polaris_console_attach_t, polaris_console_attach_exec_t)

corecmd_exec_bin(polaris_console_attach_t)
auth_use_nsswitch(polaris_console_attach_t)

# execute ping over liin:usr/binos/conf/mcp_chvrf.sh liin /bin/ping -c 1 -w 300 192.168.1.6
polaris_chvrf_domtrans(polaris_console_attach_t)
# from chvrf.sh code executes ping command
gen_require(')
    type polaris_chvrf_t;
    ),
netutils_domtrans_ping(polaris_chvrf_t)
# send sigchld when it is done
gen_require(')
    type ping_t;
    )
allow ping_t polaris_console_attach_t:process sigchld;
polaris_boot_tmp_read(polaris_console_attach_t)
polaris_btrace_data_manage(polaris_console_attach_t)
polaris_chasfs_read(polaris_console_attach_t)
polaris_cpld_read(polaris_console_attach_t)
polaris_disk_bootflash_search(polaris_console_attach_t)
polaris_disk_crashinfo_getattr(polaris_console_attach_t)
polaris_ncd_tmp_read(polaris_console_attach_t)
polaris_read_debug_conf(polaris_console_attach_t)
polaris_rmonbifo_tmp_read(polaris_console_attach_t)
polaris_use_btrace_fifo(polaris_console_attach_t)

# read/proc/cmdline
kernel_read_system_state(polaris_console_attach_t)

# read/tmp/myhostname file
polaris_hm_tmp_read(polaris_console_attach_t)

telnet_use_ptys(polaris_console_attach_t)
allow polaris_console_attach_t self:capability sys_resource;
allow polaris_console_attach_t self:process setrlimit;

# getty starts /usr/binos/conf/iosd_console_attach.sh through brelay
gen_require('  
    type getty_t;
')
polaris_bconsole_domtrans(getty_t)

# console_attach.sh start btelnet.sh over chvrf and bexecute
gen_require('  
    type polaris_bexecute_t;
')
allow polaris_bexecute_t polaris_console_attach_t:process sigchld;
corenet_tcp_connect_telnetd_port(polaris_bexecute_t)

# handling /usr/binos/conf/unifiedfs/unifiedfs_helper.sh
polaris_utility_domain_template(ufs_helper)

corecmd_exec_bin(polaris_ufs_helper_t)
auth_use_nsswitch(polaris_ufs_helper_t)

# rsync calls unifiedfs_helper.sh
gen_require('  
    type rsync_t;
')
polaris_ufs_helper_domtrans(rsync_t);

# unifiedfs_helper.sh calls mount to handle nfs directories
mount_domtrans(polaris_ufs_helper_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ufs_helper_t)

polaris_disk_bootflash_search(polaris_ufs_helper_t)
polaris_ncd_tmp_manage(polaris_ufs_helper_t)
polaris_ncd_etc_read(polaris_ufs_helper_t)

# stat over /tmp/ufs/crashinfo/10.1.1.1
polaris_disk_crashinfo_getattr(polaris_ufs_helper_t)

# unifiedfs_helper.sh creates /tmp/unifiedfs and manages underlying dirs
type polaris_ufs_tmp_t;
files_tmp_file(polaris_ufs_tmp_t)
files_tmp_filetrans(polaris_ufs_helper_t, polaris_ufs_tmp_t, { file dir })
manage_dirs_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_lnk_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

# Required for /tmp/unifiedfs access on vWLC
ifdef(`vwlc_platform,'
    files_tmp_filetrans(unconfined_service_t, polaris_ufs_tmp_t, dir, "unifiedfs")
  )

polaris_ncd_rpcinfo_net(polaris_ufs_helper_t)
polaris_persistent_getattr(polaris_ufs_helper_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_ufs_helper_t)

# ncd.sh read,search,open, creates, add_name and writes to /proc/hanet/tun_local_ip
gen_require(
    type polaris_hanet_proc_t;
    type proc_t;
    )
manage_files_pattern(polaris_ncd_t, polaris_hanet_proc_t, polaris_hanet_proc_t)
allow polaris_hanet_proc_t proc_t:filesystem associate;
allow polaris_ufs_helper_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.te
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dnl
dnl May 2018, Manohar Hungund
dnl
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dnl
dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 5)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 1)
min_bay_ripc_map_set('rp', 'global', 0)
min_bay_ripc_map_set('cc', 'global', 1)
min_bay_ripc_map_set('fp', 'global', 0)

max_bay_ripc_map_set('rp', 'global', 2)
max_bay_ripc_map_set('cc', 'global', 6)
max_bay_ripc_map_set('fp', 'global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/starfleetmaps.m4
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#
# November 2020, Christine Hwang
#
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#

# Map BBU TTY to correct device context
/dev/ttyS2 -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.fc
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#
# February 2018, Manohar Hungund
#
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#

### <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>

# ACT2 Chip Driver policy
# <summary>
# Work (read, write, ioctl) with /dev/act2
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface('polaris_act2_dev_use',
gen_require(''
type device_t;
type polaris_act2_device_t;
')
  read_chr_files_pattern($1, device_t, polaris_act2_device_t)
  write_chr_files_pattern($1, device_t, polaris_act2_device_t)
')

# <summary>
# Create /tmp/hw_entropy file. Certain platforms save
# entropy from main board ACT-2 chip in this file.
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface('polaris_hw_entropy_create',
gen_require(''
type polaris_hw_entropy_t;
type tmp_t;
')
  files_tmp_filetrans($1, polaris_hw_entropy_t, file, "hw_entropy")
  manage_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

# <summary>
# Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode,
# not clear why it couldn't just read it.
# Certain platforms save entropy from main board ACT-2 chip in this file.
# </summary>
# <param name="domain">
# </param>
## Domain allowed access.

### <summary>

### <param name="domain">

### Domain allowed access.

### </summary>

# interface(`polaris_hw_entropy_use',`

`gen_require('
    type polaris_hw_entropy_t;
    type tmp_t;
  ')

  `)

  rw_files_pattern($1, tmp_t, polaris_hw_entropy_t)

')


### Read /tmp/hw_entropy file.

### Certain platforms save entropy from main board ACT-2 chip in this file.

### <summary>

### <param name="domain">

### Domain allowed access.

### </summary>

# interface(`polaris_hw_entropy_read',`

`gen_require('
    type polaris_hw_entropy_t;
  ')

  `)

  read_files_pattern($1, tmp_t, polaris_hw_entropy_t)

')

Found in path(s):

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.if

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# April 2017, Victor Kamensky

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#

policy_module(polarisdmindbmand, 1.0);

gen_require(''
    type polaris_dmi_ndbmand_t;
  ')


polaris_btrace_data_manage(polaris_dmi_ndbmand_t)
polaris_crft_data_manage(polaris_dmi_ndbmand_t)
polaris_chasfs_manage(polaris_dmi_ndbmand_t)
polaris_tdlresolve_read(polaris_dmi_ndbmand_t)
polaris_tdlldb_list_dirs(polaris_dmi_ndbmand_t)
polaris_cpld_read(polaris_dmi_ndbmand_t)
polaris_flashlib_read(polaris_dmi_ndbmand_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_ndbmand_t)

polaris_db_tdlldb_dir_use(polaris_dmi_ndbmand_t)

# work with NDBLOAD_LOCK_PATH
type polaris_dmi_ndbutil_lock_t;
files_tmp_file(polaris_dmi_ndbutil_lock_t)
polaris_ndbload_lock_use(polaris_dmi_ndbmand_t)

optional_policy(
  # deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_dmi_ndbmand_t)
  # and allow read shared schema
polaris_confd_shared_schema_read(polaris_dmi_ndbmand_t)
  # read /proc/confd_pid/exe file
polaris_confd_read(polaris_dmi_ndbmand_t)
 )

allow polaris_dmi_ndbmand_t self:capability { dac_override dac_read_search sys_resource };

logging_send_syslog_msg(polaris_dmi_ndbmand_t)

# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_dmi_ndbmand_t)

polaris_ndbutil_lock_template(polaris_dmi_ndbmand_t, ndbmand, ".l.schema_use.ndbmand")

polaris_confd_shared_schema_watch(polaris_dmi_ndbmand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.te

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#
# February 2020, Victor Kamensky
#
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#
policy_module(polarisomp, 1.0);

gen_require('  
    type polaris_omp_t;
  ')
polaris_chasfs_manage(polaris_omp_t)  
polaris_cpld_read(polaris_omp_t)  
polaris_flashlib_read(polaris_omp_t)  
polaris_tdlresolve_read(polaris_omp_t)  
polaris_ripc_sman_ui_serv_connect(polaris_omp_t)

polaris_db_tdlldb_dir_use(polaris_omp_t)

logging_send.Syslog_msg(polaris_omp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_omp_t)

# omp_daemon_init calls posix_sysconf
dev_read_sysfs(polaris_omp_t)

# reads /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_omp_t)

# vip_util_set_fd_limits set files limits
allow polaris_omp_t self:process setrlimit;

# omp connects to omp listener tcp port 17900
corenftcp_connect_polaris_omp_port(polaris_omp_t)
# vip_util_reset_ns opens /proc/1/ns/net
polaris_cedge_reset_ns(polaris_omp_t)
# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_omp_t)

#omp_peer_active_connect() binds to OMP address
corenftcp_bind_generic_node(polaris_omp_t)
allow polaris_omp_t self:tcp_socket { bind connect create getopt setopt };

# omp starts worker thread under CPU affinity
allow polaris_omp_t self:process setsched;

# connects to ttm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)
# connects to ftm unix domain socket in msgq_connect_timer
polaris_ftm_var_sock_write(polaris_omp_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.te
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# July 2020, Victor Kamensky
#
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#
#
## <summary>Polaris htx Policy Rules.</summary>

## <summary>
##      Manage polaris_htx_iox_tmp_t in /tmp/HTX-IOX.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_htx_iox_tmp_manage',`
    gen_require(`
        type polaris_htx_iox_tmp_t;
    `)
    manage_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    manage_sock_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    manage_dirs_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    allow $1 polaris_htx_iox_tmp_t:dir watch;
    allow $1 polaris_htx_iox_tmp_t:file map;
    `)

## <summary>
##	Send messages to htx unix datagram sockets.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
# interface('polaris_htx_dgram_send',`
#     gen_require('
type polaris_hrx_t;

allow $1 polaris_hrx_t:unix_dgram_socket sendto;

#########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/sppi_memif device
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sppi_memif_dev_use',
  gen_require(
    type device_t;
    type polaris_sppi_memif_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
  read_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
)

#########################################################################
## <summary>
## Work with /tmp/HTX-IOX/.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_hrx_use_client_socket',
  gen_require(
    type polaris_hrx_t;
  )
  allow $1 polaris_hrx_t:unix_stream_socket connectto;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.if
No license file was found, but licenses were detected in source scan.

#  # July 2017, Victor Kamensky
policy_module(polarisesgtamcfg, 1.0);

gen_require(
    type polaris_esg_tam_cfg_t;
)
polaris_btrace_data_manage(polaris_esg_tam_cfg_t)
polaris_chasfs_manage(polaris_esg_tam_cfg_t)
polaris_tdlresolve_read(polaris_esg_tam_cfg_t)
polaris_tdldb_list_dirs(polaris_esg_tam_cfg_t)
polaris_flashlib_read(polaris_esg_tam_cfg_t)
polaris_cpld_read(polaris_esg_tam_cfg_t)
allow polaris_esg_tam_cfg_t self:capability net_admin;

# handle /tmp/tam_cfg_done
type polaris_tam_tmp_t;
files_tmp_file(polaris_tam_tmp_t)
files_tmp_filetrans(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, dir, "tam_cfg_done")
manage_files_pattern(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, polaris_tam_tmp_t)
gen_require(
    type tmp_t;
)
manage_dirs_pattern(polaris_esg_tam_cfg_t, tmp_t, polaris_tam_tmp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.te
No license file was found, but licenses were detected in source scan.

policy_module(polarisfmanfp, 1.0);

gen_require(
    type polaris_fman_fp_t;
)
polaris_btrace_data_manage(polaris_fman_fp_t)
polaris_crt_data_manage(polaris_fman_fp_t)
polaris_chasfs_manage(polaris_fman_fp_t)
polaris_tdlresolve_read(polaris_fman_fp_t)
polaris_tdlldb_list_dirs(polaris_fman_fp_t)
polaris_cpld_read(polaris_fman_fp_t)
polaris_lua_read(polaris_fman_fp_t)
polaris_flashlib_read(polaris_fman_fp_t)
polaris_ripc_sman_ui_serv_connect(polaris_fman_fp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_fp_t)

################################################################################################################################################
# mqipc manual, one that missing in platform tdl file
################################################################################################################################################

# mq.-iosd-thr-fmanrp-R0:0
# mq.-iosd-thr-fmanrp-1:R0:0
type polaris_iosd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_thr_fmanrp_mqipc_t)

# mq.-mobilityd-thr-fmanrp-1:R0:0
type polaris_mobilityd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_mobilityd_thr_fmanrp_mqipc_t)

# mq.-smd-thr-fmanrp-1:R0:0
type polaris_smd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_smd_thr_fmanrp_mqipc_t)

# mq.-wncd_0-thr-fmanrp-1:R0:0
type polaris_wncd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncd_thr_fmanrp_mqipc_t)

# mq.-wncmgrd_0-thr-fmanrp-1:R0:0
type polaris_wncmgrd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncmgrd_thr_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R1:0)
3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrpd_thrfmanrp_mqipc_t, wncmgrpd-thrfmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrpd_thrfmanrp_mqipc_t, wncmgrpd-thrfmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrpd_thrfmanrp_mqipc_t, wncmgrpd-thrfmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrpd_thrfmanrp_mqipc_t, wncmgrpd-thrfmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrpd_thrfmanrp_mqipc_t, wncmgrpd-thrfmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrpd_thrfmanrp_mqipc_t, wncmgrpd-thrfmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_0-thrfmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_1-thrfmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_1-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_1-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_2-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_2-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_3-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_3-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_4-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_4-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_5-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_5-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_6-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_6-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_7-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_7-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_8-thrfmanrp-1:R0:0)

optional_policy("

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_1-thrfmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_1-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_1-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_2-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_2-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_3-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_3-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_4-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_4-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_5-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_5-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_6-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_6-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_7-thrfmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_7-thrfmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thrfmanrp_mqipc_t, wncd_8-thrfmanrp-1:R0:0)
")
polaris_cpld_dev_use(polaris_fman_fp_t)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_fp_t)
polaris_cpp_tmp_files_use(polaris_fman_fp_t)

optional_policy(
polaris_cpp_dev_use(polaris_fman_fp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_fman_fp_t)
')
polaris_persistent_manage(polaris_fman_fp_t)
polaris_icc_broken_relocations(polaris_fman_fp_t)

allow polaris_fman_fp_t self:capability dac_override;
allow polaris_fman_fp_t self:capability2 block_suspend;

# when /bootflash or /harddisk are 100% full
allow polaris_fman_fp_t self:capability sys_resource;

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_fman_fp_t)
kernle_write_proc_files(polaris_fman_fp_t)

ifdef(`mcp_family',`
polaris_cm_fp_tmp_filetrans(polaris_fman_fp_t)
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
polaris_dev_mem_use(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_fman_fp_t)
')
polaris_dyncfg_tmp_read(polaris_fman_fp_t)

# /dev/qae_mem device access on overlord
optional_policy(
polaris_qae_dev_use(polaris_fman_fp_t)
')

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(
    polaris_icp_dev_use(polaris_fman_fp_t)
')
# on qwlc work with /tmp/octeon-remote-lock-pci:0
ifdef(`qwlc_platform',
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

ifdef(`katar_platform',
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

optional_policy(
#fman-fp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_fp_t)
')

polaris_iosd_vcpu_read(polaris_fman_fp_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_fman_fp_t)
fs_search_cgroup_dirs(polaris_fman_fp_t)

optional_policy(
# Access /dev/cbdma
polaris_cbdma_dev_use(polaris_fman_fp_t)

# Access /dev/n2_device
polaris_n2_dev_use(polaris_fman_fp_t)
')

polaris_cpp_tmpfs_manage(polaris_fman_fp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

### <summary>Polaris wncmgrd Policy Rules.</summary>

############################################################
### <summary>
### Read access to /bootflash/NACert.pem
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.

```c
interface('polaris_read_icap_cert_file',
    genRequire('type polaris_icap_cert_t;
    )
    allow $1 polaris_icap_cert_t:file read_file_perms;
)
```

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.if

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

# polariskeyman file contexts place holder

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.fc

No license file was found, but licenses were detected in source scan.

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#
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#

# polarisnvram file contexts place holder

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.fc

No license file was found, but licenses were detected in source scan.

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#
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#
# /3pa staff

/3pa/usr/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)

/3pa/usr/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)

/3pa/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)

/3pa/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)

/3pa/usr/(.*)?bin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)

/3pa/usr/(.*)?sbin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)

/3pa/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virt_lxc_exec_t,s0)

/usr/lib/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virt_lxc_exec_t,s0)

/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virt_lxc_exec_t,s0)

/3pa/usr/sbin/libvirtd -- gen_context(system_u:object_r:virtd_exec_t,s0)

/3pa/usr/sbin/virtlogd -- gen_context(system_u:object_r:virtlogd_exec_t,s0)

/3pa/usr/bin/qemu.* -- gen_context(system_u:object_r:qemu_exec_t,s0)

/usr/binos/conf/libvirtd.sh -- gen_context(system_u:object_r:virtd_initrc_exec_t,s0)

/3pa/etc/libvirt/(.*)? -- gen_context(system_u:object_r:virt_etc_t,s0)

/3pa/etc/logrotate.d/(.*)? -- gen_context(system_u:object_r:etc_t,s0)

# should go into contrib/telnet.fc?

/usr/binos/sbin/in.telnetd -- gen_context(system_u:object_r:telnetd_exec_t,s0)

# load_crash_kernel.sh loads crash kernel - it should be executable

/crashkernel/load_crash_kernel.sh -- gen_context(system_u:object_r:bin_t,s0)

# /etc/lablogin.sh is executed during telnet login over management port

# it should be executable. Also having shell_exec_t label will allow it
# to transition into unconfined domain

/etc/lablogin.sh -- gen_context(system_u:object_r:shell_exec_t,s0)

# /etc/init.d/*functions files should be actually in bin_t domain, the same
# as /etc/init.d/functions. Note using /etc/rc.d/init.d/ instead of
# /etc/init.d/ because we have substitution rule in file_contexts.subs_dist

/etc/rc.d/init.d/binos_functions -- gen_context(system_u:object_r:bin_t,s0)

/etc/rc.d/init.d/binos_functions-pd -- gen_context(system_u:object_r:bin_t,s0)

/etc/rc.d/init.d/chasxml_functions -- gen_context(system_u:object_r:bin_t,s0)

/etc/rc.d/init.d/common-utility-functions -- gen_context(system_u:object_r:bin_t,s0)

/etc/rc.d/init.d/rh-functions -- gen_context(system_u:object_r:bin_t,s0)

# tftp directories

/tftp.*gen_context(system_u:object_r:tftpdir_rw_t,s0)

/tftp/.gen_context(system_u:object_r:tftpdir_rw_t,s0)

# /tmp/sw

/tmp/sw -d gen_context(system_u:object_r:tmp_t,s0)

/tmp/rp -d gen_context(system_u:object_r:tmp_t,s0)

/tmp/fp -d gen_context(system_u:object_r:tmp_t,s0)

/tmp/cc -d gen_context(system_u:object_r:tmp_t,s0)
# /tmp/etc
/tmp/etc -d gen_context(system_u:object_r:polaris/etc_t,s0)

# /tmp/sv
/tmp/sv -d gen_context(system_u:object_r:polaris/sv_tmp_t,s0)

# firmware files
/firmware(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
/upgrade(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
/golden(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)

# CC card fpd files mark it as usr_t for now
/fpd(/.*)? -- gen_context(system_u:object_r:polaris_firmware_t,s0)

tmp/debug.conf -l gen_context(system_u:object_r:polaris_debug_conf_t,s0)

/var/ODM/ios_core.p7b -- gen_context(system_u:object_r:etc_t,s0)

/dev/ddr -c gen_context(system_u:object_r:polaris_ddr_device_t,s0)
/dev/i2c-[0-9]* -c gen_context(system_u:object_r:polaris_i2c_device_t,s0)

/(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/bin(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/wbin(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib64(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/bin(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/sbin(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib64(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/bin(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/sbin(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib64(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/opt/confd/lib/confd/core/confd/priv(/.*)?\ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)

# interpreter for CRDL 32bit IOSD setup proper memory map
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld_so_t,s0)

#firmware package mount point on asr1k platforms
/mnt/firmware(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)

/bootflash/USWAP(/.*)? gen_context(system_u:object_r:polaris_uswap_files_t,s0)

#Nutella EFI folder
/bootflash/EFI(/.*)? gen_context(system_u:object_r:polaris_efi_files_t,s0)
# for cat9k platform
/mnt/sd3/user/.USWAP(/.*)? gen_context(system_u:object_r:polaris_uswap_files_t,s0)

/tmp/rsync_log_dir(/.*)? gen_context(system_u:object_r:polaris_rsync_tmp_t,s0)

# for wlc awips feature
/bootflash/awips.json gen_context(system_u:object_r:polaris_awips_signature_file_t,s0)

# for wlc iot-gw feature to access /bootflash/certs dir
/bootflash/certs -d gen_context(system_u:object_r:polaris_ap_cert_file_t,s0)

# for curl - and allowing ip netns exec X curl
/usr/bin/curl -- gen_context(system_u:object_r:polaris_curl_exec_t,s0)

# Katar WLC needs access to /tmp/ldwm_envelope
/tmp/ldwm_envelope -- gen_context(system_u:object_r:polaris_ldwm_envelope_tmp_t,s0)

# CLI: show platform software tech-support
/usr/bin/os/conf/platform_tech_support.sh -- gen_context(system_u:object_r:polaris_tech_support_exec_t,s0)

# Tamlib debug file
/bootflash/tamlib_dbg_log -- gen_context(system_u:object_r:polaris_tamlib_dbg_file_t,s0)

# crypsetup - some platforms copy crypsetup in /bin
/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)
/usr/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
define('polaris_process', '')
dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_if.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2020 by Cisco Systems, Inc.
# # All rights reserved
policy_module(polarisiptbl, 1.0);

polaris_process_domain_template(iptbl)

corecmd_exec_bin(polaris_iptbl_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_iptbl_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iptbl_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_iptbl_t)

# work with /tmp files
type polaris_iptbl_tmp_t;
files_tmp_file(polaris_iptbl_tmp_t)
manage_dirs_pattern(polaris_iptbl_tmp_t, tmp_t, polaris_iptbl_tmp_t)
manage_files_pattern(polaris_iptbl_tmp_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
manage_fifo_files_pattern(polaris_iptbl_tmp_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
files_tmp_filetrans(polaris_iptbl_tmp_t, polaris_iptbl_tmp_t, { file dir })

allow polaris_iptbl_t self:capability sys_resource;
allow polaris_iptbl_t self:process setpgid;

polaris_btrace_data_manage(polaris_iptbl_t)
polaris_cpld_read(polaris_iptbl_t)
polaris_chasfs_manage(polaris_iptbl_t)
polaris_boot_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_tmp_read(polaris_iptbl_t)
polaris_proc_rmonbifo_getattr(polaris_iptbl_t)
polaris_proc_rmonbifo_read(polaris_iptbl_t)
polaris_disk_crashinfo_getattr(polaris_iptbl_t)

# execute /etc/init.d/iptables in its own domain
iptables_initrc_domtrans(polaris_iptbl_t)

# LOOK AT ME iptbl.sh puts symbolic links into /sbin directory
# need to fix manifest instead, so it will be static
gen_require(
  type bin_t;
manage_link_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_insmmod(polaris_iptbl_t)
iptables_domtrans(polaris_iptbl_t)

# iptbl.sh calls /etc/init.d/iptables restart and that needs
# read /proc/pid/net/ip_tables_names file
kernel_read_network_state(polaris_iptbl_t)
# creates /var/lock/subsys/iptables
# creates /var/lock/subsys/iptables
type polaris_iptables_lock_t;
files_lock_file(polaris_iptables_lock_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptables_lock_t, polaris_iptables_lock_t)
files_lock_filetrans(polaris_iptbl_t, polaris_iptables_lock_t, file)

# needs access to /run/netns as part of chvrf invocation
fs_read_netns_files(polaris_iptbl_t)
# iptbl.sh invokes iptable command which runs in iptables_t label and needs
# access to meta files created by iptbl.sh with label polaris_iptbl_tmp_t
allow iptables_t polaris_iptbl_tmp_t:fifo_file read_file_perms;
allow iptables_t polaris_iptbl_tmp_t:file read_file_perms;

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(`
polaris_ncd_tmp_read(polaris_iptbl_t)
`)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.te
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#
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#
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#
/usr/bin/bhytoolsd -- gen_context(system_u:object_r:polaris_bhytoolsd_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.fc
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
policy_module(polaris_autoupgrade, 1.0);

gen_require(
    type polaris_autoupgrade_t;
)

corecmd_exec_bin(polaris_autoupgrade_t)
corecmd_exec_shell(polaris_autoupgrade_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_autoupgrade_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_autoupgrade_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_autoupgrade_t)

allow polaris_autoupgrade_t self:capability { sys_resource dac_override };
allow polaris_autoupgrade_t self:process setpgid;

class polaris_tdldb_list_dirs(polaris_autoupgrade_t)

class polaris_btrace_data_manage(polaris_autoupgrade_t)
class polaris_chasfs_manage(polaris_autoupgrade_t)
class polaris_cpld_read(polaris_autoupgrade_t)
class polaris_proc_rmonbifo_read(polaris_autoupgrade_t)
class polaris_rmonbifo_tmp_read(polaris_autoupgrade_t)
class polaris_boot_tmp_manage(polaris_autoupgrade_t)
class polaris_read_debug_conf(polaris_autoupgrade_t)
class polaris_disk_crashinfo_getattr(polaris_autoupgrade_t)

type polaris_autoupgrade_tmp_t;
files_tmp_file(polaris_autoupgrade_tmp_t)

# /tmp/etc/installer

gen_require(
    type polaris_etc_t;
)
filetrans_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t, dir, "installer")
manage_fifo_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t)
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
# Allow access to bootflash
polaris_bootflash_read(polaris_autoupgrade_t)

# Allow access to packages.conf
polaris_read_packages_conf(polaris_autoupgrade_t)

# needs to run pidof
dev_read_sysfs(polaris_autoupgrade_t)
kernl_read_system_state(polaris_autoupgrade_t)
domain_read_all_domains_state(polaris_autoupgrade_t)

# send syslog
logging_send_syslog_msg(polaris_autoupgrade_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_autoupgrade_t)
gen_require(
    type rsync_t;
)
allow rsync_t polaris_autoupgrade_t:process sigchld;

# /tmp/ufs/crashinfo access
optional_policy(
    polaris_ncd_tmp_read(polaris_autoupgrade_t)
)

# autoupgrade script in case of HA setup invokes brelay to trigger install of stand-by
polaris_bexecute_domtrans(polaris_autoupgrade_t)
polaris_flashlib_lock(polaris_autoupgrade_t)
polaris_flashlib_read(polaris_autoupgrade_t)
polaris_disk_install_read(polaris_autoupgrade_t)
polaris_install_engine_domtrans(polaris_autoupgrade_t)

#add transition to create /var/installer by autoupgrade
type polaris_autoupgrade_var_t;
files_tmp_file(polaris_autoupgrade_var_t)
files_var_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_var_t, {file dir})
gen_require(
    type polaris_autoupgrade_exec_t;
)

#add transition to create /var/installer/auto_upgrade_helper.sh by autoupgrade
filetrans_pattern(polaris_autoupgrade_t,polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file, 
    "auto_upgrade_helper.sh")
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)
#add transition to create files/dir in /tmp
files_tmp_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, {file dir})

# access to /tmp/installer
polaris_install_tmp_manage(polaris_autoupgrade_t)

fs_getattr_tmpfs(polaris_autoupgrade_t)

# access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_autoupgrade_t)

# access to /harddisk link (accessed by flashutil and rotee call)
polaris_disk_harddisk_read_lnk(polaris_autoupgrade_t)

rsync_entry_domtrans(polaris_chvrf_t, rsync_t)

gen_require(
    type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
    
)  
rsync_entry_domtrans(polaris_autoupgrade_t, rsync_t)
polaris_bexecute_domain(polaris_autoupgrade_t, polaris_autoupgrade_exec_t)

fs_getattr_xattr_fs(polaris_autoupgrade_t)

# auto_upgrade_helper.sh creates /var/installer/auto_upgrade_helper.sh
allow polaris_autoupgrade_t polaris_autoupgrade_exec_t:file { create setattr write };

# rsync operations for members and standby rps on autoupgrade
gen_require(
    type rsync_port_t;
    
)  
allow polaris_autoupgrade_t rsync_port_t:tcp_socket name_connect;

# rsync requires to relabel /var/installer/auto_upgrade_helper.sh on standby
gen_require(
    type var_t;
    
)  
allow rsync_t var_t:file relabelfrom;
allow rsync_t polaris_autoupgrade_exec_t:file relabelto;

# access to /vol/harddisk/*.pkg
polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_autoupgrade_t)
polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# auto_upgrade_client.sh access to "/tmp/sw/rp/0/0/rp_base/mount/bin/cut"
polaris_issu_tmp_files_read(polaris_autoupgrade_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.te
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#
# June 2017, Victor Kamensky
#
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#
/usr/binos/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/usr/binos/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)

ifdef(`nyquist_platform',`
/usr/binos/conf/standby_ioxcfg.sh -- gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
/mnt/sd3/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/guest_share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
')

ifdef(`passport_platform',`
/flash1/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/guest_share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
/usr/binos/conf/standby_ioxcfg.sh gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
')

#All possible accesses from /bootflash/iox_alt_hdd_mount_dir (iox_polaris.conf)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

/BOOTFLASH/IOX_ALT_HDD.DSK gen_context(system_u:object_r:polaris_iox_alternate_hdd_files_t,s0)
/BOOTFLASH/IOX_ALT_HDD_MOUNT_DIR(/.*)?
  gen_context(system_u:object_r:polaris_iox_alternate_hdd_files_t,s0)
/BOOTFLASH/IOX_ALT_HDD_MOUNT_DIR/iox(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/BOOTFLASH/IOX_ALT_HDD_MOUNT_DIR/calif(/.*)?
  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/BOOTFLASH/IOX_ALT_HDD_MOUNT_DIR/iox_data_share(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/BOOTFLASH/IOX_ALT_HDD_MOUNT_DIR/iox_host_data_share(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/BOOTFLASH/IOX_ALT_HDD_MOUNT_DIR/guest_share(/.*)?
  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/BOOTFLASH/user/gs_script/sss(/.*)?
  gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)

#All the possible IOX guestshell_dir from iox_polaris.conf
/guestshell(/.*)?(/.*).sh    gen_context(system_u:object_r:polaris_iox_guestshell_exec_t,s0)
/guestshell(/.*)?    gen_context(system_u:object_r:polaris_iox_guestshell_t,s0)

#All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf
/BOOTFLASH/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/MNT/SD3/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/FLASH1/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/FLASH11/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/HARDDISK/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/DISK0/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/USB1/IOX(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)

/BOOTFLASH/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/MNT/SD3/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/FLASH1/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/FLASH11/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/HARDDISK/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/DISK0/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/USB1/IOX_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)

/BOOTFLASH/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/MNT/SD3/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/FLASH1/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/FLASH11/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/HARDDISK/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/DISK0/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)
/VOL/USB1/IOX_HOST_DATA_SHARE(/.*)?
  gen_context(system_u:object_r:polaris_iox_files_t,s0)

/OPT/CISCO/CAF/SCRIPTS(/.*)?(/.*).sh    gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/OPT/CISCO/CAF(/.*)?(/.*)    gen_context(system_u:object_r:polaris_caf_files_t,s0)
/OPT/CISCO/CAF -d gen_context(system_u:object_r:polaris_caf_files_t,s0)

/VAR/LOG/CAF(/.*)?    gen_context(system_u:object_r:polaris_caf_log_t,s0)

/etc/guestshell_rsa_key/pub    gen_context(system_u:object_r:polaris_guestshell_ssh_key_t,s0)
/etc/guestshell_rsa_key  gen_context(system_u:object_r:polaris_guestshell_ssh_key_t,s0)
/tmp/caf(/.*)?         gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/bootflash/caf(/.*)?   gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/caf(/.*)?     gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash1/caf(/.*)?      gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash11/caf(/.*)?     gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/vol/harddisk/caf(/.*)?    gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/vol/disk0/caf(/.*)?   gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/vol/usb1/caf(/.*)?     gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/var/run/netns/guestshell  gen_context(system_u:object_r:polaris_guestshell_var_run_t,s0)
/var/run/cisco_cli(/.*)?          gen_context(system_u:object_r:polaris_caf_var_run_t,s0)
/tmp/ttyF(.*)(/.*)(.*) gen_context(system_u:object_r:fifo_var_run_t,s0)

# All the possible IOX bootflash/guest-share directory. This directory is shared between IOS and IOX
/bootflash/guest-share(/.*)?       gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/guest-share(/.*)?     gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/guest-share(/.*)?      gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash11/guest-share(/.*)?     gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/harddisk/guest-share(/.*)?     gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/disk0/guest-share(/.*)?   gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/usb1/guest-share(/.*)?   gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

# polarisfnfagg file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.fc
No license file was found, but licenses were detected in source scan.

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 9996
## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.if

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# polarisplogd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.fc

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dnl
# April 2018, Victor Kamensky
dnl
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dnl
divert(-1)

includ('polaris_process.m4')
includ('polaris_process_if.m4')

includ('polaris_ipc_mqipc.m4')
includ('polaris_ipc_mqipc_if.m4')

includ('polaris_ipc_ripc.m4')
includ('polaris_ipc_ripc_if.m4')

includ('polaris_ipc_lipc.m4')
includ('polaris_ipc_lipc_if.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server','')
define('polaris_cipc_service_server','')

includ('polaris_max_scope.m4')

divert(0)dnl
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_if.m4
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#
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#
/tmp/1.ndbutil-loadgen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
/tmp/1.ndbutil-use gen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.fc
No license file was found, but licenses were detected in source scan.

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#
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#
/dev/cpp_vxe_rsrc    -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_dev_info    -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp            -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_kipc       -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
# on 1ng box
/dev/octeon_device  -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_pdma       -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/i95_[0-9]*    -c gen_context(system_u:object_r:polaris_i95_device_t,s0)

/dev/shm/cpp_.*     -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/seml_cpp_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/seml.CPP_.* -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem!CGM_SHM_SEM -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/cpp_ucode_dram -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/cpp_sbs_shm -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)

/mnt/huge/cpp_ucode_dram -- gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
policy_module(polarisservicemgr, 1.0);

gen_require('
    type polaris_service_mgr_t;
')

polaris_btrace_data_manage(polaris_service_mgr_t)
polaris_crft_data_manage(polaris_service_mgr_t)
polaris_chasfs_manage(polaris_service_mgr_t)
polaris_cpld_read(polaris_service_mgr_t)
polaris_flashlib_read(polaris_service_mgr_t)
polaris_lua_read(polaris_service_mgr_t)
polaris_tdlresolve_read(polaris_service_mgr_t)
polaris_rpc_sman_ui_serv_connect(polaris_service_mgr_t)
polaris_db_tdlldb_dir_use(polaris_service_mgr_t)

# Use REPM MQIPC for replication
polaris_repm_peer_mqipc_manage(polaris_service_mgr_t)

#watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_service_mgr_t)

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policy_module(polarispvp, 1.0);

polaris_process_domain_template(pvp)

# transition to pman domain, once pman is invoked by pvp
polaris_pman_domtrans(polaris_pvp_t)

corecmd_exec_bin(polaris_pvp_t)
corecmd_exec_shell(polaris_pvp_t)
# can execute hostname in pvp domain
hostname_exec(polaris_pvp_t)
# can execute process in polaris domain
polaris_exec(polaris_pvp_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pvp_t)

# allow to get getattr of /proc file system during find over it
kernel_getattr_proc(polaris_pvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pvp_t)

# all to read sysctl files in /proc directory
kernel_read_all_sysctls(polaris_pvp_t)

# work with /tmp files

type polaris_pvp_tmp_t;
files_tmp_file(polaris_pvp_tmp_t)
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
files_tmp_filetrans(polaris_pvp_t, polaris_pvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, dir, "pvp")

# /tmp/silent_roll_select.log handling on Macallan
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, file, "silent_roll_select.log")

# work with /tmp/[r|f|p|c|l]/pvp/process_state files

type polaris_process_state_t;
files_tmp_file(polaris_process_state_t)
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t, dir, "process_state")

# LOOK AT ME now all polaris process can change each other process
# state. Need to fix it with more process specific labels in case
# when polaris_domain_process becomes template.
gen_require(
    attribute polaris_domain;
')
polaris_pvp_manage_process_state_files(polaris_domain)

allow polaris_pvp_t self:capability sys_resource;

# readlink access to /proc/<pid>/fd/0 triggers sys_ptrace capability need
allow polaris_pvp_t self:capability { sys_ptrace };

dmidecode_domtrans(polaris_pvp_t)

# on some ngwc pvp has to code-sign-verify silent roll packages
ifdef(`ngwc_family',
    polaris_code_verify_domtrans(polaris_pvp_t)
')
polaris_btrace_data_manage_all(polaris_pvp_t)
polaris_chasfs_manage(polaris_pvp_t)
polaris_cpld_read(polaris_pvp_t)
polaris_cpld_write(polaris_pvp_t)
polaris_proc_rmonbifo_read(polaris_pvp_t)
polaris_rmonbifo_tmp_read(polaris_pvp_t)
polaris_tldldb_list_dirs(polaris_pvp_t)
polaris_boot_tmp_read(polaris_pvp_t)
polaris_read_debug_conf(polaris_pvp_t)

# LOOK AT ME pvp.sh runs find over /proc. Needs access
# to state of all processes
domain_read_all_domains_state(polaris_pvp_t)

# pvp.sh can call logger command
logging_send_syslog_msg(polaris_pvp_t)

# should it not be moved to dmidecode module or better
# change script to call dmidecode with stdin redirected
# from /dev/null (i.e dmidecode < /dev/null)
gen_require(
    type dmidecode_t;
')
polaris_pvp_stdin_read(dmidecode_t)
# read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# allow polaris_pvp_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_pvp_t)

gen_require(
  type initrc_t;
  type init_t;
)
# init_script_tmp_filetrans(initrc_t, polaris_pvp_tmp_t, file, "iosd_memory_share")
files_tmp_filetrans([ initrc_t init_t ], polaris_pvp_tmp_t, file, "iosd_memory_share")
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pvp_tmp_t, dir, "max_elastic_bays")

# direct access to serial TTY devices like /dev/ttyS1
term_write_unallocated_ttys(polaris_pvp_t)

# For Cabo, allow access to GNSS device
ifdef(`cabo_platform',`
polaris_cabo_gnss_dev_use(polaris_pvp_t)`)
国王

# on ultra pvp calls hv_ttyprobe utility to figure out what terminal
# to use as console, and this one need read access to terminal. There is
# no separate macro for read only. But since we granting write to everyone
# let use 'use' which means read/write
ifdef(`vxe_family',`
term_use_unallocated_ttys(polaris_pvp_t)`)

ifdef(`wlc_family',`
term_use_unallocated_ttys(polaris_pvp_t)`)

# pvp's linux_iosd_image_env.sh will check /dev/ttyUSB* ports with hv_ttyprobe too.
term_use_usb_ttys(polaris_pvp_t)

# allow access and modify files in /tftp directory, cannot use tftp_manage_rw_content
# since it does not cover link files
gen_require(
  type tftpdir_rw_t;
)
manage_dirs_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_lnk_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)

# ASR1K modular platforms create /tftp/inv/inventory_$fru_$slot.bin
# /tftp/inv is not a softlink but a directory for asr1k Modular platforms.
# So it needs a file transition to polaris_chasfs_t for accessing it.
ifdef(`mcp_family',
    filetrans_pattern(domain, tftpdir_rw_t, polaris_chasfs_t, dir, "inv")
')

# on ultra platform hv_ttyprobe utility that runs under polaris_pvp_t label
# checks for existence of /boot/ttyS0_ignore file; and since /boot is symlink
# to /varied it need dir search permission over polaris_disk_varied_t
ifdef(`vxe_family',
    polaris_disk_varied_search(polaris_pvp_t)
')
ifdef(`wlc_family',
    polaris_disk_varied_search(polaris_pvp_t)
')

# pvp.sh calls cp utility with -a option that should preserve files
# attributes as result cp needs to perform set_process_security_ctx call
# which in turns calls setfscreatecon
allow polaris_pvp_t self:process setfscreate;

# pvp.sh calls pidof utility and it needs read access to sysfs_t
#
# When resetting a partner, pvp writes to the PCIe switch global
# reset register using the i2c driver, which is also sysfs_t
# LOOK AT ME should we create a new type for the PCIe switch reg
dev_rw_sysfs(polaris_pvp_t)

# wants to execute /bin/dmesg
dmesg_domtrans(polaris_pvp_t)

# wants to read from /tmp/rp/pvp/work/inot_fifo
gen_require(
    type dmesg_t;
')

rw_fifo_files_pattern(dmesg_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)

# wants to write into /bootflash/.prst_sync
polaris_persistent_manage(polaris_pvp_t)

# pvp tried to find all execept hman polaris process with
# 'find /tmp/rp/process -name *.pid ! -name *hman* -printf %p' command
# should be able to read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# on way down pvp.sh call 'workon.sh rp 0 rotate force' so we
# need to transition and run it in btrace_rotate domain
polaris_btrace_rotate.Domtrans(polaris_pvp_t)

# on way down pvp.sh checks for *.TEMP_IN_PROGRESS in /misc/scratch/core
# need to be able read /misc/scratch link
polaris_disk_bootflash_read_lnk(polaris_pvp_t)

# implode.sh things, should we run them in its own domain?

# removes /etc/exports, create a new empty one and runs 'exportfs -ua'
# this action also needs kernel_rw_rpc_sysctls to flush
files_manage/etc_files(polaris_pvp_t)
gen_require(
    type exports_t;
)
allow polaris_pvp_t exports_t:file delete_file_perms;
rpc_write_exports(polaris_pvp_t)
rpc_manage_nfs_state_data(polaris_pvp_t)
kernel_rw_rpc_sysctls(polaris_pvp_t)

# calls 'systemctl reboot'
systemd_start_power_services(polaris_pvp_t)

# pvp on 1ng attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_pvp_t)
allow polaris_pvp_t self:capability dac_override;

# in some image pvp needs to monut /tmp/rd/tdldb, in other images
# it got mount by chasfs_boottime.sh systemd unit
polaris_tdldb_manage_dirs(polaris_pvp_t)
mount_domtrans(polaris_pvp_t)

# in some cases pvp script creates /tmp/xx/process directory
polaris_pman_tmp_filetrans(polaris_pvp_t, dir, "process")
polaris_pman_manage_tmp_files(polaris_pvp_t)

# on ngwc pvp creates /flash1/NVRAM directory
gen_require(
    type polaris_nvram_file_t;
    type root_t;
)
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "flash1")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)

# obtain access to rommon vars which live in flashlib
polaris_flashlib_read(polaris_pvp_t)
polaris_flashlib_write(polaris_pvp_t)

# on ngwc platforms pvp creates /obfl_cc directory and soft links it
# to the correct vbd device
ifdef(`ngwc_family',`
  gen_require('  
    type polaris_obfl_data_t;
    type root_t;
  ')
  filetrans_pattern(polaris_pvp_t, root_t, polaris_obfl_data_t, dir, "obfl_cc")
')

# on ngwc platforms pvp needs to be able to determine if the the vbd devices
# exist. The types may be slightly different depending on whether the cc's
# device node is managed by udev or not
ifdef(`ngwc_family',`
  dev_getattr_generic_blk_files(polaris_pvp_t)
  storage_getattr_fixed_disk_dev(polaris_pvp_t)
  udev_read_db(polaris_pvp_t)
')

# on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
# to the correct silent roll software package via vbd_sr_app_init()
ifdef(`ngwc_family',`
  polaris_sw_data_manage(polaris_pvp_t)
')

# on blackheart pvp creates /blackheart_config directory
ifdef(`blackheart_platform',`
  gen_require('  
    type polaris_nvram_file_t;
    type root_t;
  ')
  filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "blackheart_config")
  manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
')

# on sparrow pvp creates /sparrow_config directory
ifdef(`sparrow_platform',`
  gen_require('  
    type polaris_nvram_file_t;
    type root_t;
  ')
  filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "sparrow_config")
  manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
')

# on Aventus pvp creates /aventus_config directory
ifdef(`aventus_platform',`
  gen_require('  
    type polaris_nvram_file_t;
    type root_t;
  ')
  filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
  manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
fs_manage_configs_files(polaris_pvp_t)
')

# on utah for cc and on 1ng cyan_init.sh is executed by pvp
polaris_dyncfg_domtrans(polaris_pvp_t)
# should it not be moved to cyan module or better
# change script to call cyan_init.sh with stdin redirected
# from /dev/null (i.e cyan_init.sh < /dev/null)
gen_require('  type polaris_dyncfg_t;
')
polaris_pvp_stdin_read(polaris_dyncfg_t)

# mktmpfd checks /tmp file system attributes
fs_getattr_tmpfs(polaris_pvp_t)

optional_policy('  # pvp on nyquist ls /tmp/ufs/crashinfo
  polaris_ncd_tmp_read(polaris_pvp_t)
')

# transition to polaris_load_usbnet_t, once load_usbnet.sh is invoked by pvp
# crankshaft platforms need access to configfs
ifdef('crankshaft_family','
polaris_load_usbnet_domtrans(polaris_pvp_t)
gen_require('  type configfs_t;
')
allow polaris_pvp_t configfs_t:dir getattr;
')

# runs rsync -ptgoDLq /bootflash/.installer/issu_crash/fru_crash rsync://rp0-0/bootflash/.../rsync_entry_type(polaris_pvp_t)
ifdef('ngwc_family','
polaris_chvrf_domtrans(polaris_pvp_t)
gen_require('  type rsync_t;
')
allow rsync_t polaris_pvp_t:process sigchld;

# pvp_tmp file descriptor leaks into mcp_chvrf.sh
gen_require('  type polaris_chvrf_t;
  type polaris_pvp_tmp_t;
')
allow polaris_chvrf_t polaris_pvp_tmp_t:fifo_file { ioctl read ;
}

# statfs64 over /tmp
fs_getattr_xattr_fs(polaris_pvp_t)

polaris_tdlresolve_read(polaris_pvp_t)

corenent_tcp_connect_rsync_port(polaris_pvp_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pvp_t)

# runs over /proc/
kernel_read_network_state_symlinks(polaris_pvp_t)

# work with mounts
mount_domtrans(polaris_pvp_t)

optional_policy('
# pvp.sh may mark or clear bits in /proc/exiting_bays
polaris_rw_exiting_bays(polaris_pvp_t)
')

optional_policy('
container_runtime_domtrans(polaris_pvp_t)
')

# LOOK AT ME /usr/binos/conf/dockerd_env.sh not only sets environment
# it also does quite a bit of action in context of pvp when it got
# sourced before dockerd start
optional_policy('
fs_getattr_all_fs(polaris_pvp_t)
files_getattr_all_dirs(polaris_pvp_t)
fs_read_nsfs_files(polaris_pvp_t)
corenent_blueprint_create_files(polaris_pvp_t)
polaris_caf_files_read(polaris_pvp_t)
# creates /var/log/docker/docker.log
logging_manage_generic_logs(polaris_pvp_t)
gen_require('
    type var_log_t;
')
allow polaris_pvp_t var_log_t:dir create;
')

# support uswap feature.
# pvp script create and deletes
# the /bootflash/uswap/... folder.
type polaris_uswap_files_t;
files_type(polaris_uswap_files_t)
polaris_pfile_type(polaris_uswap_files_t)
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_uswap_files_t, dir, ".USWAP")
manage_dirs_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_link_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)

# support for pvp to create /harddisk/.CRFT directory
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_crft_data_t, dir, ".CRFT")

# Support SAI

type polaris_pvp_sai_t;
files_tmp_file(polaris_pvp_sai_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t, dir, "sai_process")
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)

# all processes controlled by pchort require access to sai files

# implode.sh 'systemctl reboot' uses dbus
dbus_system_bus_client(polaris_pvp_t)

# and checks reboot.target
systemd_status_power_services(polaris_pvp_t)
# writes sysctrl_i2c.lck file
gen_require(
    type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_pvp_t)

# journalctl and ifconfig are used when gathering logs during a punt-inject
# crash
journalctl_domtrans(polaris_pvp_t)
sysnet_domtrans_ifconfig(polaris_pvp_t)
# and allow it to write to our shutdownlog
gen_require(
    type ifconfig_t;
')
polaris_btrace_data_manage_all(ifconfig_t)

# implode.sh checks ip interfaces before ifconfig
polaris_socketat_nsfs_read(polaris_pvp_t)

# cedge uses logrotate
polaris_ripc_confd_ipc_connect(polaris_pvp_t)
# logrotate perms
polaris_confd_var_log_manage(polaris_pvp_t)
allow polaris_pvp_t self:capability { chown fowner };
# var_lib stuff
files_manage_urandom_seed(polaris_pvp_t)

# vconfd_script_admin_tech.sh is invoked by pvp.sh. This requires a domain
# transition from pvp to admin tech context.
polaris_admin_tech_domtrans(polaris_pvp_t)

## systemreport related permissions
# pd_info collection when triggering systemreport
# fdisk permissions
storage_raw_read_fixed_disk( polaris_pvp_t );
fstools_manage_entry_files( polaris_pvp_t);
fstools_exec( polaris_pvp_t );
polaris_rommon_device_read(polaris_pvp_t)
# dmesg writes to pd_info path
write_files_pattern(dmesg_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t )
gen_require(
    type admin_home_t;
')
# top creates/writes dir /.config
allow polaris_pvp_t admin_home_t:dir { add_name create write };

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# drop-caches
kernel_rwlock_sysctls(polaris_pvp_t);

# systemreport collection reads all sorts of files
# but also deletes those files afterwards...
logging_manage_audit_log(polaris_pvp_t)

# report collects maroon data
polaris_maroon_data_manage_all(polaris_pvp_t);
polaris_tdlresolve_manage(polaris_pvp_t);

# collect udev log
polaris_udev_tmp_manage(polaris_pvp_t)

init_status(polaris_pvp_t);

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.te
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dnl
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dnl
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dnl
define(`ripc_stem', `translit(patsubst($1, `-ripc$', `'), `-', `_'))
define(`ripc_label', `format(`polaris_%s_ripc_port_t', ripc_stem($1)))

dnl Ripc Type Map: track that type declarations unique
define(`ripc_type_map', `defn(format(``ripc_type_map[%s]', `$1')))
define(`ripc_type_map_set', `define(format(``ripc_type_map[%s]', `$1'), `$2'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc.m4
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#
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#

policy_module(polarisquack, 1.0);

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# Quack Driver policy

---

type polaris_quack_device_t;
dev_node(polaris_quack_device_t)

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# Polaris lua files
/lua/(.*)?\.(.*)\.lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/usr/binos/conf/(.*)?\.(.*)\.lua-- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*)?\.(.*)\..so -- gen_context(system_u:object_r:lib_t,s0)
/lua/(.*)?\.(.*) --dgen_context(system_u:object_r:usr_t,s0)
/lua --dgen_context(system_u:object_r:usr_t,s0)

#Polaris nginx lua files
/var/scripts/lua/(.*)? -d gen_context(system_u:object_r:polaris_lua_file_t,s0)
/var/scripts/lua/(.*)? -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

# why did we put .so libraries in /var directory?
/var/LibLua/LuaXML_lib\.so -- gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/cjson\.so -- gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/(.*)\.lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

#/lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*)? -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

Found in path(s):
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#
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/tmp/sw/cfg(.*?         gen_context(system_u:object_r:polaris_cfg_data_t,s0)
/usr/binos/conf/cfg_sync.sh -- gen_context(system_u:object_r:polaris_cfg_sync_exec_t,s0)

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#

/var/log/dmi(.*?        gen_context(system_u:object_r:polaris_dmi_var_log_t,s0)
/tmp/stream-parsers(.*? gen_context(system_u:object_r:polaris_dmi_parser_t,s0)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.fc
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#
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#

## <summary>Polaris container Policy Rules.</summary>

########################################
## <summary>
##	Creates types and rules for a basic
##	polaris container process domain.
## </summary>
## <param name="stem">
##<summary>
##Stem for the domain. Name is construcuted as polaris_stem_container_t
##</summary>
## </param>
#
template(`polaris_container_domain_template',`
gen_require(`
    type svirt_sandbox_file_t;
    type virt_lxc_var_run_t;
    attribute sandbox_net_domain;
    attribute svirt_sandbox_domain;
    bool virt_sandbox_use_sys_admin;

```
bool virt_sandbox_use_mknod;
bool virt_sandbox_use_all_caps;
bool virt_sandbox_use_netlink;

)

type polaris_$1_container_t, svirt_sandbox_domain;
domain_type(polaris_$1_container_t)
domain_user_exemption_target(polaris_$1_container_t)
mls_rangetrans_target(polaris_$1_container_t)
mcs_constrained(polaris_$1_container_t)
role system_r types polaris_$1_container_t;

logging_send_syslog_msg(polaris_$1_container_t)

kernel_read_system_state(polaris_$1_container_t)
kernbel_read_all_proc(polaris_$1_container_t)

virt_default_capabilities(polaris_$1_container_t)
typeattribute polaris_$1_container_t sandbox_net_domain;
dontaudit polaris_$1_container_t self:capability fsetid;
dontaudit polaris_$1_container_t self:capability2 block_suspend;
allow polaris_$1_container_t self:process { execstack execmem };
manage_chr_files_pattern(polaris_$1_container_t, svirt_sandbox_file_t, svirt_sandbox_file_t)
kernbel_load_module(polaris_$1_container_t)

    tunable_policy(`virt_sandbox_use_sys_admin',
        allow polaris_$1_container_t self:capability sys_admin;
    )

    tunable_policy(`virt_sandbox_use_mknod',
        allow polaris_$1_container_t self:capability mknod;
    )

    tunable_policy(`virt_sandbox_use_all_caps',
        allow polaris_$1_container_t self:capability all_capability_perms;
        allow polaris_$1_container_t self:capability2 allCapability2_perms;
    )

    tunable_policy(`virt_sandbox_use_netlink',
        allow polaris_$1_container_t self:netlink_socket create_socket_perms;
        allow polaris_$1_container_t self:netlink_tcpdiag_socket create_netlink_socket_perms;
        allow polaris_$1_container_t self:netlink_kobject_uevent_socket create_socket_perms;
        logging_dontaudit_send_audit_msgs(polaris_$1_container_t)
    )

    allow polaris_$1_container_t virt_lxc_var_run_t:dir list_dir_perms;
    allow polaris_$1_container_t virt_lxc_var_run_t:file read_file_perms;
kernel_read_irq_syscts(polaris_$1_container_t)
kernel_read_messages(polaris_$1_container_t)

dev_read_sysfs(polaris_$1_container_t)
dev_read_mttr(polaris_$1_container_t)
dev_read_rand(polaris_$1_container_t)
dev_read_urand(polaris_$1_container_t)

files_read_kernel_modules(polaris_$1_container_t)

# Do we actually need these?
fs_mount_cgroup(polaris_$1_container_t)
fs_manage_cgroup_dirs(polaris_$1_container_t)
fs_manage_cgroup_files(polaris_$1_container_t)
# Needed for docker
fs_unmount_xattr_fs(polaris_$1_container_t)

auth_use_nsswitch(polaris_$1_container_t)

optional_policy(
                                       rpm_read_db(polaris_$1_container_t)
)

logging_send_syslog_msg(polaris_$1_container_t)

tunable_policy(`virt_sandbox_use_audit',

              logging_send_audit_msgs(polaris_$1_container_t)
)

userdom_use_user_ptys(polaris_$1_container_t)

optional_policy(
                           # allow vman to kill lxc container process
                           # on shutdown where vman destroys container-related
                           # stuff after a timeout period
                           polaris_vman_kill_process(polaris_$1_container_t)
)

# copied from polariscommon.if. If the label is added in
# in permissive map, the below interface will make permissive
ifelse(permissive_domain(polaris_$1_container_t), polaris_$1_container_t,
    `polaris_permissive_domain_setup(polaris_$1_container_t)',
    confined_domain(polaris_$1_container_t), polaris_$1_container_t, ``,
    `polaris_domain_maybe_unconfined(polaris_$1_container_t)'
)

)
# <summary>
# Creates types and rules for a basic polaris KVM container process domain.
# </summary>

## <param name="stem">
##<summary>
## Stem for the domain. Name is constructed as polaris_stem_container_t
##</summary>
## </param>

#
template(`polaris_kvm_domain_template',

gen_require(`
attribute virt_domain;
type svirt_image_t;
')

# for now, things are same as polaris_container_domain_template
polaris_container_domain_template($1)

typeattribute polaris_$1_container_t virt_domain;
# allow {map} of svirt_image_t needed by VWAAS similar to svirt
allow polaris_$1_container_t svirt_image_t:{ file blk_file } map;
')

# <summary> 
# Read Sandbox Files 
# </summary> 

## <param name="domain">
##<summary>
## Domain allowed access.
##</summary>
## </param>

#
interface(`polaris_sandbox_file_read',

gen_require(`
type svirt_sandbox_file_t;
')
read_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
read_lnk_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
list_dirs_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
')

# <summary>
# Read Sandbox Files 
# </summary> 

## <param name="domain">
## </param>
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sandbox_file_dir_list',
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type svirt_sandbox_file_t;
    )
)
list_dirs_pattern($1, [ svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t ],
svirt_sandbox_file_t)
optional_policy(
    gen_require(
        type polaris_iox_alt_hdd_files_t;
    )
    list_dirs_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
)
)

##########################################
## <summary>
## Getattr of Sandbox Files
## </summary>
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sandbox_file_getattr',
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type svirt_sandbox_file_t;
    )
)getattr_files_pattern($1, [ svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t ],
svirt_sandbox_file_t)
optional_policy(
    gen_require(
        type polaris_iox_alt_hdd_files_t;
    )
    getattr_files_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
)
## <summary>
## Normal restricted permission to execute utd (snort) container
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface(`polaris_utd_container`,
   allow $1 self:netlink_generic_socket client_stream_socket_perms;
)

## <summary>
## Allow domain transition
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface(`polaris_iox_container_domtrans`,
gen_require(`
   type polaris_iox_container_t;
   type container_file_t;
`)
   domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
)

## <summary>
## Allow watch on container files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface(`polaris_iox_container_watch`,
gen_require(`
   type tmpfs_t;
   type container_file_t;
`)
)
allow $1 container_file_t:{ dir file lnk_file} watch;
allow $1 tmpfs_t:{ dir file lnk_file} watch;

########################################
## <summary>
##      Send messages to utdl container unix datagram sockets.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_utdl_container_dgram_send',
    gen_require(
        type polaris_utdl_container_t;
    )
        allow $1 polaris_utdl_container_t:unix_dgram_socket sendto;
')

########################################
## <summary>
##      Allow unix stream socket connect
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_waas_stream_connect',
    gen_require(
        type polaris_waas_container_t;
    )
        allow $1 polaris_waas_container_t:unix_stream_socket connectto;
')

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#

/tmp/.flashlock -- gen_context(system_u:object_r:polaris_flashlib_lock_t,s0)
/tmp/flashdev.log -- gen_context(system_u:object_r:polaris_flashlib_log_t,s0)

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#
#
# dma map devices
/dev/dmammap -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

#/dev/dma_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dma_nw -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# dplr interrupt devices
/dev/dplr_intrpt -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

#/dev/dplr_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dplr_nw -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# e.g., /dev/msi/Slot8/Doppler0/Group0
/dev/msi/Slot[0-9]*/Doppler[0-9]* -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)
/dev/msi/Slot[0-9]*/Doppler[0-9]*/(.*)? -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

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#
#
## <summary>Polaris ncd Policy Rules.</summary>

########################################
## <summary>Pol...
## Make the specified domain able to manage tmp file created by ncd.sh like /tmp/etc/ncd_work_dir
## <summary>
## <param name="type">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ncd_tmp_manage',
    gen_require(
        type polaris_ncd_tmp_t;
    )
    manage_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
)

########################################
## Make the specified domain able to read tmp file created by ncd.sh like /tmp/ufs/crashinfo
## <summary>
## <param name="type">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ncd_tmp_read',
    gen_require(
        type polaris_ncd_tmp_t;
    )
    list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
)

########################################
## Make the specified domain able to read etc file created by ncd.sh like /etc/conf/unifiedfs/mount_data
## <summary>
## <param name="type">
## Domain allowed access.
## </summary>
## </param>
# interface('polaris_nrd_etc_read',
    gen_require('type polaris_nrd_etc_t;
    )
    read_files_pattern($1, polaris_nrd_etc_t, polaris_nrd_etc_t)
)

########################################
## <summary>
##      Execute a domain transition to run ncd.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_nrd_domtrans',
    gen_require('type polaris_nrd_t, polaris_nrd_exec_t;
    )
    domtrans_pattern($1, polaris_nrd_exec_t, polaris_nrd_t)
)

########################################
## <summary>
##      Execute a domain transition to run unifiedfs_helper.sh.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_ufs_helper_domtrans',
    gen_require('type polaris_ufs_helper_t, polaris_ufs_helper_exec_t;
    )
    domtrans_pattern($1, polaris_ufs_helper_exec_t, polaris_ufs_helper_t)
)

########################################
## <summary>
##      Run rpcinfo in a domain, grant proper network permissions.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_ncd_rpcinfo_net',
    corenet_tcp_bind_generic_node($1)
corenet_tcp_bind_all_rpc_ports($1)
corenet_tcp_connect_all_rpc_ports($1)
corenet_tcp_connect_unreserved_ports($1)
    allow $1 self:tcp_socket { bind connect create getattr getopt setopt };

    corenet_udp_bind_generic_node($1)
corenet_udp_bind_all_rpc_ports($1)
    allow $1 self:udp_socket { bind create getattr getopt setopt };

    corenet_tcp_connect_portmap_port($1)

ifdef(`passport_platform',
    # invoked rpcinfo which connects to port 2049 (nfs server)
    # port is incorrectly labelled due to falling in range of TDL define
    # of IOSd gold ripc service
    polaris_ripc_iosd_gold_connect($1)
')

ifdef(`starfleet_platform',
    # invoked rpcinfo which connects to port 2049 (nfs server)
    # port is incorrectly labelled due to falling in range of TDL define
    # of IOSd gold ripc service
    polaris_ripc_iosd_gold_connect($1)
')

ifdef(`bigbang_platform',
    # nfs server port 2049 is labelled as ripecemd_ui_port_t based on TDL define
    polaris_ripc_emd_ui_connect($1)
')

')

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#
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#

policy_module(polariscppcdm, 1.0);

gen_require(
    type polaris_cpp_cdm_t;
    )

polaris_btrace_data_manage(polaris_cpp_cdm_t)
polaris_crf_data_manage(polaris_cpp_cdm_t)
polaris_chasfs_manage(polaris_cpp_cdm_t)
polaris_tdlresolve_read(polaris_cpp_cdm_t)
polaris_tdlldb_list_dirs(polaris_cpp_cdm_t)
polaris_cpld_read(polaris_cpp_cdm_t)
polaris_flashlib_read(polaris_cpp_cdm_t)
polaris_cpp_tmp_files_use(polaris_cpp_cdm_t)
# works with /dev/cpp_dev_info and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_cdm_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_cdm_t)
polaris_icc_broken_relocations(polaris_cpp_cdm_t)

allow polaris_cpp_cdm_t self:capability net_admin;

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_cdm_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cdm_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_cdm_t)
    
    )

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library.
optional_policy(`
polaris_cpp_cavium_dma_map(polaris_cpp_cdm_t)
    
    )

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_cdm_t)
    
    )
polaris_cpld_dev_use(polaris_cpp_cdm_t)
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
#
## <summary>Polaris bsm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
/dev/cpld -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-ha -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-misc-int -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-fp -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-cc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl January 2021, Vaibhav Lade
dnl
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dnl
dnl VPCGW Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`fp', `elastic', BPROC_UEMGR, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_UEMGR, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vpcgwmaps.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris gsd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polarisgsdrip.m4
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#

policy_module(polarisoctdplogrp, 1.0);
gen_require(
    type polaris_oct_dp_log_rp_t;
)

polaris_btrace_data_manage(polaris_oct_dp_log_rp_t)
polaris_chasfs_manage(polaris_oct_dp_log_rp_t)
polaris_tdlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tdlldb_list_dirs(polaris_oct_dp_log_rp_t)
polaris_cpld_read(polaris_oct_dp_log_rp_t)
polaris_flashlib_read(polaris_oct_dp_log_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to acces /dev/ttyDASH7)
term_open_unallocated_ttys(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisocdplogrp.te
No license file was found, but licenses were detected in source scan.

#
# June 2020, Manu Roy
#
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#

## <summary>Polaris iotswitch Policy Rules.</summary>
#
#
####################################
## <summary>
## Work (read, write, ioctl) with /dev/petra-fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_iots_fpga_dev_use',`
    gen_require(`
        type device_t;
        type polaris_iots_fpga_device_t;
    `)
    write_echr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
allow $1 polaris_iots_fpga_device_t:chr_file map;

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/tm
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_iots_tm_dev_use',
  gen_require(
    type device_t;
    type polaris_iots_tm_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
  allow $1 polaris_iots_tm_device_t:chr_file map;
)

######################################
## <summary>
##      Allow access to semaphore with type polaris_cm_rp_t
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_cm_rp_sem_use',
  gen_require(
    type polaris_cm_rp_t;
  )
  allow $1 polaris_cm_rp_t:sem rw_sem_perms;
)

######################################
## <summary>
##      Allow access to semaphore with type polaris_iots_mvDmaDrv_device_t
## </summary>
## <param name="domain">
##      Domain allowed access.
interface('polaris_mvDmaDrv_dev_use',
    type device_t;
    type polaris_iots_mvDmaDrv_device_t;
)
write_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
allow $1 polaris_iots_mvDmaDrv_device_t:chr_file map;
')

interface('polaris_mvIntDrv_dev_use',
    type device_t;
    type polaris_iots_mvIntDrv_device_t;
)
write_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)

interface('polaris_swipedrive_file_manage',
    type polaris_iots_swipedrive_file_t;
)
manage_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
manage_link_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
manage_dirs_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
')

########################################
## <summary>
##      Get the attributes of an swipe drive
##      filesystem.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_getattr_swipedrive',
   gen_require(
      type polaris_iots_swipedrive_file_t;
   )

allow $1 polaris_iots_swipedrive_file_t:filesystem getattr;
')

########################################
## <summary>
##      Allow access to semaphore with type polaris_iots_led_device_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_led_dev_use',
   gen_require(
      type device_t;
      type polaris_iots_led_device_t;
   )
   write_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
   read_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.if
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#

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### Polaris fnf_agg Policy Rules.

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.if

No license file was found, but licenses were detected in source scan.

### Polaris TDLResolve Policy Rules.

```
# TDLresolve policy
```

```
### Open tdlresolve files
```
```
```
## <summary>
## Manage tdlresolve files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_tdlresolve_manage`,
  gen_require(`
    type polaris_tdlresolve_t;
    `)
  manage_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  manage_lnk_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  manage_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  allow $1 polaris_tdlresolve_t:file map;
  gen_require(`
    type polaris_global_service_t;
    `)
  manage_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
  allow $1 polaris_global_service_t:file map;
  `)

## <summary>
## Watch tdlresolve directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_tdlresolve_watch`,
  gen_require(`
    type polaris_tdlresolve_t;
    `)
  allow $1 polaris_tdlresolve_t:dir watch;
  `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
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#

/tmp/maroon_stats -dgen_context(system_u:object_r:polaris_maroon_base_t,s0)
# zram devices
/dev/zram[0-9]* -b gen_context(system_u:object_r:polaris_zram_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
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#

policy_module(polarishtx, 1.0);

gen_require(
    type polaris_htx_t;
')
polaris_chasfs_read(polaris_htx_t)
polaris_cpld_read(polaris_htx_t)
polaris_tdlresolve_read(polaris_htx_t)
polaris_ripc_sman_ui_serv_connect(polaris_htx_t)
logging_send_syslog_msg(polaris_htx_t)

# LOOK AT ME uses shell and mkdir just to create /tmp/HTX-IOX directory
# should be single mkdir system call, in fact even this may not
# be needed since it is created by system-tempfiles
corecmd_exec_shell(polaris_htx_t)
corecmd_exec_bin(polaris_htx_t)
auth_use_nsswitch(polaris_htx_t)

# call posix_sysconf that opens /sys/devices/system/cpu/online
dev_read_sysfs(polaris_htx_t)

# create threads
allow polaris_htx_t self:process setsched;
allow polaris_htx_t self:capability sys_nice;

optional_policy(
    polaris_qfp_dgram_send(polaris_htx_t)
)

# vconfd_load_shared_schemas
polaris_conf_shared_schema_read(polaris_htx_t)

type polaris_htx_iox_tmp_t;
files_tmp_file(polaris_htx_iox_tmp_t)
polaris_htx_iox_tmp_manage(polaris_htx_t)

# htx logs files like /tmp/nwaas_log_sslproxy.log
type polaris_htx_tmpfs_t;
files_tmpfs_file(polaris_htx_tmpfs_t)
files_tmpfs_filetrans(polaris_htx_t, polaris_htx_tmpfs_t, file)
manage_files_pattern(polaris_htx_t, polaris_htx_tmpfs_t, polaris_htx_tmpfs_t)

# handle /dev/shm/tcpproxy_debug_shm
type polaris_htx_tmpfs_t;
files_tmpfs_file(polaris_htx_tmpfs_t)
fs_tmpfs_filetrans(polaris_htx_t, polaris_htx_tmpfs_t, file)
fs_getattr_tmpfs(polaris_htx_t)
gen_require(
    type tmpfs_t;
)

manage_files_pattern(polaris_htx_t, tmpfs_t, polaris_htx_tmpfs_t)
allow polaris_htx_t polaris_htx_tmpfs_t:file map;

# work with /tmp/memif
optional_policy(
    polaris_qfp_memif_manage(polaris_htx_t)
)

# sppi_memif
type polaris_sppi_memif_device_t;
devid(polaris_sppi_memif_device_t)
polaris_sppi_memif_dev_use(polaris_htx_t)

# packet_socket uinet_if_sppi_channel_init
allow polaris_htx_t self:packet_socket { create_socket_perms recv_msg send_msg};
allow polaris_htx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_htx_t)
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris nginx Policy Rules.</summary>

########################################
## <summary>
##      Allow domain to be started by nginx with
##      transition into specific service domain.
## </summary>
## <param name="domain">
##      <summary>
##      Type to be used to run utility.
##      </summary>
## </param>
## <param name="entry_point">
##      <summary>
##      Type of the program to be used as an entry point to this domain.
##      </summary>
## </param>
interface(`polaris_nginx_exec_domain',`
gen_require(`
type polaris_nginx_t;
')
domtrans_pattern(polaris_nginx_t, $2, $1)
')

########################################
## <summary>
##      Execute mcp_trace_filter script in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_trace_filter_domtrans','

# Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.te
gen_require(
    type polaris_trace_filter_t, polaris_trace_filter_exec_t;
  )

domtrans_pattern($1, polaris_trace_filter_exec_t, polaris_trace_filter_t)
  )

####################################################################################
## <summary>
##      Execute file transfer client in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_file_transfer_client_domtrans',`
  gen_require(
      type polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t;
    )

domtrans_pattern($1, polaris_file_transfer_client_exec_t, polaris_file_transfer_client_t)
  )

####################################################################################
## <summary>
##      Allow others to perform pipe operations on nginx files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to perform the operation
##      </summary>
## </param>
#
interface(`polaris_nginx_manage_fifo_files',`
  gen_require(`
      type polaris_nginx_t;
      type $1;
    )

manage_fifo_files_pattern($1, polaris_nginx_t, polaris_nginx_t)
  )

####################################################################################
## <summary>
##      Allow the specified domain to manage polaris_nginx_tmp_t files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_nginx_tmp_manage',`
   gen_require(`
      type polaris_nginx_tmp_t;
   `)
   manage_files_pattern($1, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
   files_tmp_filetrans($1, polaris_nginx_tmp_t, file, "ca.cert")
`)

#######################################
## <summary>
##      Manage polaris_fts_client_tmp_t in /tmp/fts_client.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_fts_client_tmp_manage',`
   gen_require(`
      type polaris_fts_client_tmp_t;
   `)
   manage_files_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
   manage_dirs_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.if
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#
# February 2020, Victor Kamensky
#
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#
#
## <summary>Polaris cedgetanman Policy Rules.</summary>

###############################################################
## <summary>
##
##

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## Read cedge tanman files and fifo_file. I.e
## /tmp/tan/tan_evt_fifo
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cedge_tanman_tmp_manage',
    gen_require(`
        type polaris_cedge_tanman_tmp_t;
    `)
    read_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
    read_fifo_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.if
No license file was found, but licenses were detected in source scan.
#
# November 2017, Victor Kamensky
#
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#
#
# polarisgnmib file contexts place holder
#flash1/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
#bootflash/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
#mnt/sd3/user/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.fc
No license file was found, but licenses were detected in source scan.
#
# November 2020, Christine Hwang
#
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#
#
## <summary>Polaris bbu Policy Rules.</summary>

#
## Work (read, write, ioctl) with /dev/ttyS2
## </summary>
## <param name="domain">
##   Domain allowed access.
## </summary>
## </param>
#
interface('polaris_bbu_dev_use','
    gen_require(''
        type device_t;
        type polaris_bbu_device_t;
    ''
    )
    write_chr_files_pattern($1, device_t, polaris_bbu_device_t)
    read_chr_files_pattern($1, device_t, polaris_bbu_device_t)
    allow $1 polaris_bbu_device_t:chr_file map;
''
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris polarsisrollbacktimer Policy Rules.</summary>

###############################
## Manage rbtimer file on bootflash (i.e /bootflash/.rollback_timer)
## </summary>
## <param name="domain">
##   Domain allowed access.
## </summary>
## </param>
#
interface('polaris_rbtimer_bootflash_manage','
    gen_require(''
        type polaris_disk_bootflash_t;
        type polaris_rbtimer_bootflash_t;
    ''
    )
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t)
    manage_files_pattern($1, polaris_rbtimer_bootflash_t, polaris_rbtimer_bootflash_t)
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t, dir, ".rollback_timer")
'}

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.if
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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris keyman Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.if
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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris polarisoom Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/install_engine.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_assist.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/sw_pload_svc.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/provision.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/issu/issu_check.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/packtool.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
# The SMU hot patch directory hierarchy should look as follows:
#
# /RP.<ARCH>/<process>/patch(s)
# /FP.<ARCH>/<process>/patch(s)
# /CC.<ARCH>/<process>/patch(s)
#
#/RP[^/]*[^/]*(.*)? gen_context(system_u:object_r:lib_t,s0)
#/FP[^/]*[^/]*(.*)? gen_context(system_u:object_r:lib_t,s0)
#/CP[^/]*[^/]*(.*)? gen_context(system_u:object_r:lib_t,s0)
#
# bundlee image/subpkg labeling
/packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/.*.pkginfo -- gen_context(system_u:object_r:polaris_sw_data_t,s0)
/.*.pkg -- gen_context(system_u:object_r:polaris_sw_data_t,s0)
/	mp/pkg_cs_debug(/.*)? gen_context(system_u:object_r:polaris_pkg_cs_debug_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisepcwsliaison, 1.0);

gen_require(' type polaris_epc_ws_liaison_t;
')

polaris_btrace_data manage(polaris_epc_ws_liaison_t)
polaris_crf_data manage(polaris_epc_ws_liaison_t)
polaris_chasfs manage(polaris_epc_ws_liaison_t)
polaris_tdlresolve_read(polaris_epc_ws_liaison_t)
polaris_tdldb_list_dirs(polaris_epc_ws_liaison_t)
polaris_cpld_read(polaris_epc_ws_liaison_t)
polaris_flashlib_read(polaris_epc_ws_liaison_t)
polaris_ripc_sman_ui_serv_connect(polaris_epc_ws_liaison_t)

allow polaris_epc_ws_liaison_t self:_capability { dac_override };

# tshark invoked by epc_ws_liasion needs to map /etc/passwd.
auth_map_passwd(polaris_epc_ws_liaison_t)
# access to execute /sbin/tshark
corecmd_exec_bin(polaris_epc_ws_liaison_t)

# dumpcap needs access to net dir in sysfs
dev_read_sysfs(polaris_epc_ws_liaison_t)

# comm="dumpcap" kmod="net-pf-16-proto-12"
kernel_dontaudit_request_load_module(polaris_epc_ws_liaison_t)

# write pcap files to /bootflash
polaris_bootflash_manage(polaris_epc_ws_liaison_t)

# epc_ws_liaison and ngwc-fed pipe interaction
polaris_fed_shm_file_read(polaris_epc_ws_liaison_t)

# for pluggable FS, allow epc liaison to access files on them.
polaris_removable_manage(polaris_epc_ws_liaison_t)

# tshark and dumpcap runtime requirements
allow polaris_epc_ws_liaison_t self:capability { net_raw setgid setuid };
allow polaris_epc_ws_liaison_t self:netlink_netfilter_socket create;
allow polaris_epc_ws_liaison_t self:netlink_route_socket { bind create getattr nlmsg_read };
allow polaris_epc_ws_liaison_t self:packet_socket { bind create getopt ioctl map setopt };
allow polaris_epc_ws_liaison_t self:process setcap;
allow polaris_epc_ws_liaison_t self:unix_dgram_socket { create ioctl };
allow polaris_epc_ws_liaison_t self:udp_socket { create ioctl };

# /tmp/lsn.log and /tmp/epc_ws (WS_TMP_FOLDER)
type polaris_epc_ws_liaison_tmp_t;
files_tmp_file(polaris_epc_ws_liaison_tmp_t)
files_tmp_filetrans(polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t, { file dir })
manage_dirs_pattern(polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_files_pattern(polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_fifo_files_pattern(polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)

# CLI: show platform software wireshark show
polaris_utility_domain_template(wireshark_show)
polaris_bexecute_domain(polaris_wireshark_show_t, polaris_wireshark_show_exec_t)
polaris_chasfs_manage(polaris_wireshark_show_t)
corecmd_exec_bin(polaris_wireshark_show_t)

# map /etc/passwd
auth_map_passwd(polaris_wireshark_show_t)
# open, read, getattribute pcap files
polaris_bootflash_read(polaris_wireshark_show_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_wireshark_show_t)

corecmd_exec_shell(polaris_wireshark_show_t)

# sys file /sys/devices/system/cpu/online
dev_read_sysfs(polaris_wireshark_show_t)

# tshark and dumpcap runtime requirements
allow polaris_wireshark_show_t self:capability { setgid setuid net_admin };
allow polaris_wireshark_show_t self:netlink_netfilter_socket create;
allow polaris_wireshark_show_t self:netlink_route_socket { bind create getattribute nlmsg_read };
allow polaris_wireshark_show_t self:process setcap;
allow polaris_wireshark_show_t self:udp_socket { create ioctl };
allow polaris_wireshark_show_t self:unix_dgram_socket { create ioctl };

dumpcap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file
polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)

# comm="dumpcap" kmod="net-pf-16-proto-12"
kernel_request_load_module(polaris_wireshark_show_t)

#/tmp/*.pcapng
type polaris_wireshark_show_tmp_t;
files_tmp_file(polaris_wireshark_show_tmp_t)
files_tmp_filetrans(polaris_wireshark_show_t, polaris_wireshark_show_tmp_t, file)
polaris_wireshark_show_tmpManage(polaris_wireshark_show_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.te
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#
# June 2020 , Manu Roy
#
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#

policy_module(polarisiotswitch, 1.0);

# petra fpga device (/dev/petra-fpga)
type polaris_iots_fpga_device_t;
dev_node(polaris_iots_fpga_device_t)
# petra DMA ASIC driver (/dev/mvDmaDrv)
type polaris_iots_mvDmaDrv_device_t;
dev_node(polaris_iots_mvDmaDrv_device_t)

# petra Interrupt Asic driver (/dev/mvIntDrv)
type polaris_iots_mvIntDrv_device_t;
dev_node(polaris_iots_mvIntDrv_device_t)

# petra tm device (/dev/tm)
type polaris_iots_tm_device_t;
dev_node(polaris_iots_tm_device_t)

# petra tm device (/dev/mmcblk1p1))
type polaris_iots_swipedrive_device_t;
dev_node(polaris_iots_swopedrive_device_t)

type polaris_iots_swipedrive_file_t;
files_type(polaris_iots_swipedrive_file_t)
dev_associate(polaris_iots_swipedrive_file_t)

# LED device (/dev/spidev0.0)
type polaris_iots_led_device_t;
dev_node(polaris_iots_led_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.te

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris psd Policy Rules.</summary>

# # Read polars_restconft files, effectively files
# under /tmp/restconf
## </summary>
## <param name="domain">
##   Domain allowed access.
## </summary>
### <param>
#
interface('polaris_restconf_read',
    gen_require(
        type polaris_restconf_t;
    
    read_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    read_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    list_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
    
    )

########################################
## <summary>
##      Manage polaris_restconf_t files, effectively files
## under /tmp/restconf
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_restconf_manage',
    gen_require(
        type polaris_restconf_t;
    
    manage_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
    
    )

########################################
## <summary>
##      Manage polaris_ncsshd_keys_t files, effectively files
## under /tmp/.ncsshd_authorized_keys
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ncsshd_keys_manage',
    gen_require(
        type polaris_ncsshd_keys_t;
    
    manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    manage_lnk_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
')

#########################################################################
## <summary>
## Read polaris_psd_tmp_t files, effectively access
## /tmp/dmi.ds_config created by psd and read by confd startup
## script
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_psd_tmp_read',
    gen_require(
        type polaris_psd_tmp_t;
    ')
    read_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.if
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# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
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#
## <summary>Polaris smd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl# All rights reserved
dnl
define(`polaris_process_aux_full',``
polaris_process_domain_template($1)
")
define('polaris_process_aux',`
  ifelse(process_type_map($1), ", " , polaris_process_aux_full($1))
  process_type_map_set($1, 1)
')

define('polaris_process',`
  polaris_process_aux(process_stem($1))
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_te.m4
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmincsshdmgmt, 1.0);

  gen_require(`
    type polaris_dmi_ncsshd_mgmt_t;
  ')

  polaris_btrace_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_mgmt_t)
polaris_tdldb_list_dirs(polaris_dmi_ncsshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_ncsshd_mgmt_t)
corenets_tcp_bind_generic_node(polaris_dmi_ncsshd_mgmt_t)
allow polaris_dmi_ncsshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:udp_socket { getattr create connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:cap_users { sys_admin net_bind_service }

type polaris_dmi_ncsshd_mgmt_var_run_t;
files_pid_file(polaris_dmi_ncsshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, { file dir })
# access /var/log/lastlog, /var/log/btmp

type polaris_dmi_ncsshd_mgmt_var_log_t;
logging_log_file(polaris_dmi_ncsshd_mgmt_var_log_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, polaris_dmi_ncsshd_mgmt_var_log_t)
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "lastlog")
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "btmp")

polaris_dmi_ncsshd_fwd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_bind_polaris_dmi_ncsshd_mgmt_port(polaris_dmi_ncsshd_mgmt_t)
# ncsshd allows user-defined port with: netconf-yang ssh port <port_no>
corenet_tcp_bind_all_ports(polaris_dmi_ncsshd_mgmt_t)

auth_use_nsswitch(polaris_dmi_ncsshd_mgmt_t)
# assign flollowing cpabilities needed by sshd
allow polaris_dmi_ncsshd_mgmt_t self:capability {net_admin setgid sys_resource setuid sys_chroot kill};
allow polaris_dmi_ncsshd_mgmt_t self:process setrlimit;

# ncsshd requests pseudo terminal when netconf session is set up without
# explicitly specifying the subsystem name, such as netconf.
allow polaris_dmi_ncsshd_mgmt_t self:capability { chown fowner fsetid };
term_setattr_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_getattr_pty_fs(polaris_dmi_ncsshd_mgmt_t)
term_use_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_use_ptmx(polaris_dmi_ncsshd_mgmt_t)

#enable to read cpld file "/sys/devices/platform/cpld/board_vtype"
polaris_cpld_read(polaris_dmi_ncsshd_mgmt_t)
#for sshd needs access network interface resource
allow polaris_dmi_ncsshd_mgmt_t self:netlink_route_socket r_netlink_socket_perms;

# calls socketat server_listen at mgmt/dmi/ncsshd/src/sshd.c
polaris_socketat_nfs_read(polaris_dmi_ncsshd_mgmt_t)
polaris_lfts_dev_use(polaris_dmi_ncsshd_mgmt_t)

corecmd_exec_bin(polaris_dmi_ncsshd_mgmt_t)

logging_send_syslog_msg(polaris_dmi_ncsshd_mgmt_t)
# TODO : revisit below statement when addressing initrc_exec_t denial
polaris_rmonbifo_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow access to /tmp/sw/cfg and /tmp/sw/boot
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_dmi_dmiauthd_dgram_send(polaris_dmi_ncsshd_mgmt_t)
corenet_tcp_connect_polaris_netconf_interceptor_port(polaris_dmi_ncsshd_mgmt_t);
# This fixes runin.sh related denials. Refer to auth.c file which invokes bshell.
polaris_bexecute_domtrans(polaris_dmi_ncsshd_mgmt_t);

# This fixes authorized keys access related denials.
polaris_ncsshdAuthorized_keys_read(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to interceptor files.
polaris_interceptor_manage(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to netconf_callhome executable
gen_require(' type polaris_confd_t;')
allow polaris_dmi_ncsshd_mgmt_t polaris_confd_t:tcp_socket { getattr getopt setopt);

# This fixes denials related to route, scp, chvrf command executables
# { read open getattr } operations are allowed on route command
# { search open } operations are allowed on scp command
# { read open execute execute_no_trans } operations are allowed on chvrf command
kernel_read_network_state(polaris_dmi_ncsshd_mgmt_t)

optional_policy(' # allows access to /tmp/xml/Intf dir and files
polaris_cedge_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_cedge_xml_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
')
# This fixes denials related to ifconfig executable
# { execute read open execute_no_trans map getattr } operations are allowed
sysnet_domtrans_ifconfig(polaris_dmi_ncsshd_mgmt_t)

# This fixes access denials related to confd checking ncsshd_mgmt proc info
# /proc/<ncsshd pid>/
read_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)
read_lnk_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)

# allows access for admin-tech generation from vManage
polaris_admin_tech_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_bootflash_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_cfg_data_t
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_boot_tmp_t
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow to watch /var/run/netns and list dir
polaris_watch_netns(polaris_dmi_ncsshd_mgmt_t)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  10050

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmcsshdmgmt.te

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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris polarispman Policy Rules.</summary>

########################################
## <summary>
##      Make the specified program domain accessable
##      from the pman.
## </summary>
## <param name="domain">
##      The type of the process to transition to.
## </param>
## <param name="entrypoint">
##      The type of the file used as an entrypoint to this domain.
## </param>
#
interface(`polaris_pman_entry`,
   gen_require(`
      type polaris_pman_t;
      type polaris_gdb_t;
   `)

domtrans_pattern(polaris_pman_t, $2, $1)
domtrans_pattern(polaris_gdb_t, $2, $1)

   allow polaris_gdb_t $1:process { ptrace signal sigstop };
`)

########################################
## <summary>
##      Execute a domain transition to run pman.
## </summary>
## <param name="domain">
##      The type of the process to transition to.
## </param>
## <param name="entrypoint">
##      The type of the file used as an entrypoint to this domain.
## </param>
#
## Domain allowed to transition.

```c
# interface('polaris_pman_domtrans',
    gen_require(
        type polaris_pman_t, polaris_pman_exec_t;
    )
)

domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
```

## Read pman temporary files and directories in /tmp.

```c
# interface('polaris_pman_read_tmp_files',
    gen_require(
        type polaris_pman_tmp_t;
    )
)

read_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
```

## Manage pman temporary files and directories in /tmp.

```c
# interface('polaris_pman_manage_tmp_files',
    gen_require(
        type polaris_pman_tmp_t;
    )
)

manage_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
```
<summary>
Create an object in the polaris_pman_tmp directories.
</summary>

<param name="domain">
Domain allowed access.
</param>

<param name="object">
The object class of the object being created.
</param>

<param name="name" optional="true">
The name of the object being created.
</param>

interface('polaris_pman_tmp_filetrans',
gen_require(
type polaris_pman_tmp_t;
')
files_tmp_filetrans($1, polaris_pman_tmp_t, $2, $3)
')

<summary>
Check existence (getattr) of pman btrace file (i.e polaris_pman_bt_t)
</summary>

<param name="domain">
Domain allowed access.
</param>

interface('polaris_pman_bt_getattr',
gen_require(
type polaris_pman_bt_t;
type polaris_btrace_base_t;
')
getattr_files_pattern($1, polaris_btrace_base_t, polaris_pman_bt_t)
')
## <summary>
## Read and write to pmanlite fifo file, used as stdout/stderr.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_use_pman_fifo',
    gen_require('polaris_pman_t:
        allow $1 polaris_pman_t:fifo_file { rw_fifo_file_perms };
    ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.if

No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
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#

policy_module(polariswncmgrd, 1.0);

gen_require('polaris_wncmgrd_t:
    polaris_btrace_data_manage(polaris_wncmgrd_t)
polaris_chasfs_manage(polaris_wncmgrd_t)
polaris_tdlresolve_read(polaris_wncmgrd_t)
polaris_tdldb_list_dirs(polaris_wncmgrd_t)
polaris_cpld_read(polaris_wncmgrd_t)
polaris_lua_read(polaris_wncmgrd_t)
polaris_flashlib_read(polaris_wncmgrd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncmgrd_t)
polaris_db_tdldb_dir_use(polaris_wncmgrd_t)
#allow setrlimit
allow polaris_wncmgrd_t self:process setrlimit;
allow polaris_wncmgrd_t self:capability sys_resource;
allow polaris_wncmgrd_t self:capability dac_override;

allow polaris_wncmgrd_t self:tcp_socket { shutdown };

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt };
corennet_udp_bind_generic_node(polaris_wncmgrd_t)

#allow wncmgrd module to do ioctl,open,read,write operations on char file
polaris_lfts_dev_use(polaris_wncmgrd_t)

# it use tcp port 9090 and9091(polaris_wnc_mgrd_port)
corennet_tcp_bind_polaris_wnc_mgrd_port(polaris_wncmgrd_t)

# For ewlc, wnccd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

# wncmgrd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncmgrd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_wncmgrd_t)
polaris_tdldbpersist_setup(polaris_wncmgrd_t)
polaris_tmp_tdldb_persist_setup(polaris_wncmgrd_t)
logging_send_syslog_msg(polaris_wncmgrd_t)

# bind CAPWAP control and data
corennet_udp_bind_polaris_capwap_ctr_port(polaris_wncmgrd_t)
corennet_udp_bind_polaris_capwap_data_port(polaris_wncmgrd_t)

# wncmgrd accessing NA certificate to push to AP
type polaris_icap_cert_t;
polaris_pfile_type(polaris_icap_cert_t)

#wncmgrd receives the certificate file from IOSd via IPC
#and writes to /bootflash for ICap feature
#and hence requires access.
gen_require(
  type polaris_icap_cert_t;
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_icap_cert_t, file, "NACert.pem")
allow polaris_wncmgrd_t polaris_icap_cert_t:file { write create read open getattr unlink }

#allow tcp connection from http port for awips file download
#from DNAC
corenethttp_connect_http_port(polaris_wncmgrd_t)

#allow read/write/mmap access to awips file
gen_require(
  type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_wncmgrd_t polaris_awips_signature_file_t:file { map write create read open getattr unlink }

#allow read access to resolv.conf
sysnet_read_config(polaris_wncmgrd_t)

#ewlc_capwap_dgram_srvr_create_raw_send_socket () creates a socket
#creates sll.sll_family = AF_PACKET;
#sll.sll_ifindex = dgram_io_desc->lfts_ifindex;
#sll.sll_protocol = htons(ETH_P_ALL);

allow polaris_wncmgrd_t self:packet_socket { create_socket_perms setopt }
allow polaris_wncmgrd_t self:rawip_socket { create_socket_perms setopt ioctl }

allow polaris_wncmgrd_t self:capability net_raw;
corenethot_bind_generic_node(polaris_wncmgrd_t)

gen_require(
  type port_t;
')
allow polaris_wncmgrd_t port_t:rawip_socket name_bind;

# allow tmp symlinks
fs_read_tmpfs_symlinks(polaris_wncmgrd_t)
# allow tmp file read
polaris_install_tmp_read(polaris_wncmgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
## <summary>Polaris NVRAM Policy Rules.</summary>

# NVRAM policy

### <summary>Manage nvram files (location varies by platform)</summary>
### <param name="domain">
###     Domain allowed access.
### </param>
### <rolebase/>

```
interface('polaris_nvram_manage',
    gen_require('type polaris_nvram_file_t;
        type device_t;
    ')
    manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
    manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    manage_link_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')
```

### <summary>Read nvram files (location varies by platform)</summary>
### <param name="domain">
###     Domain allowed access.
### </param>
### <rolebase/>

```
interface('polaris_nvram_read',
    gen_require('type polaris_nvram_file_t;
        type device_t;
    ')
```

# All rights reserved
read_blk_files_pattern($1, device_t, polaris_nvram_file_t)
read_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
read_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)

')

#########################################################################
## <summary>
##      getattr for nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(‘polaris_nvram_getattr’,
  gen_require(‘
    type polaris_nvram_file_t;
    type device_t;
  ’)

getattr_blk_files_pattern($1, device_t, polaris_nvram_file_t)
getattr_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
getattr_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)

’)
policy_module(polarisoom, 1.0);

polaris_process_domain_template(oom)

corecmd_exec_bin(polaris_oom_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_oom_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_oom_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_oom_t)

allow polaris_oom_t self:capability sys_resource;
allow polaris_oom_t self:process setpgid;

polaris_btrace_data_manage(polaris_oom_t)
polaris_chasfs_manage(polaris_oom_t)
polaris_cpdl_read(polaris_oom_t)
polaris_boot_tmp_read(polaris_oom_t)
polaris_read_debug_conf(polaris_oom_t)
polaris_disk_crashinfo_getattr(polaris_oom_t)
polaris_monbifo_tmp_read(polaris_oom_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
# # All rights reserved
#
#
#/mnt/sd1 edison and nyquist
/mnt/sd1(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/mnt/sd1/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd1/system-report_*.tar\.gz gen_context(system_u:object_r:polaris_system_report_t,s0)

#/mnt/sd3 edison and nyquist
/mnt/sd3(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/mnt/sd3/user/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
# /mnt/sd4 nyquist
/mnt/sd4(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd5 edison and nyquist
/mnt/sd5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

ifdef(`edison_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd8
/mnt/sd8(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /mnt/sd9
/mnt/sd9(/.*)? gen_context(system_u:object_r:polaris_disk_recovery_t,s0)
')

ifdef(`nyquist_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

#unmount script used ny Nyquist platform
/bin/cat9k_ssd_unmount.sh gen_context(system_u:object_r:polaris_ssd_unmount_exec_t,s0)
')

ifdef(`quake_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_udb0_t,s0)
')

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash is symbolic link to /mnt/sd3/user
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /lic0 is symbolic link to /mnt/sd4
/lic0 gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /lic1 is symbolic link to /mnt/sd5
/lic1 gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /ngwc_config/nvram is symbolic link to /mnt/sd3/user
/ngwc_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 macallan
/flash1(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/user/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/user/.ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/flash1/user/.ssh/ssh_host.*_key\_pub gen_context(system_u:object_r:ssh_key_t,s0)
/flash1/user/.ssh/ssh_host.*_key gen_context(system_u:object_r:ssh_key_t,s0)
/flash1/user/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/flash1/user/packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/flash1/user/kernel/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/flash1/user/installer(/.*)? gen_context(system_u:object_r:polaris_disk_installer_t,s0)
/flash1/user/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/user/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/flash1/TEMPLATE(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /flash2 macallan 9500h
/flash2(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/flash2/CRASH(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/flash2/CRASH/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)

# /flash3 macallan
/flash3(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /flash4 macallan
/flash4(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash5 macallan
/flash5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash6 macallan, used for silent roll in macallan
# /flash6(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /flash7 macallan, silent roll
# macallan silent roll link
/cc_srdrv gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan /ngmod_config/nvram link will be labeled by systemd-tmpfiles
/ngmod_config gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/ngmod_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# remap_mem0 device
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)

# chdrvvmmap device (MMAP Driver for ASIC Memory mapping)
/dev/chdrvvmmap -c gen_context(system_u:object_r:polaris_chdrvvmmap_device_t,s0)

# gettysburg_dev1 device
/dev/gettysburg_dev[0-9]* -c gen_context(system_u:object_r:polaris_gettysburg_fpga_device_t,s0)

# types that might be packages label by other policy
ifdef(`nyquist_platform',
/usr/binos/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
/usr/binos/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)
')
ifdef(`passport_platform',
/usr/binos/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
/usr/binos/bin/xcvr_test -- gen_context(system_u:object_r:polaris_xcvr_test_exec_t,s0)
/usr/binos/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
/usr/binos/bin/cmm -- gen_context(system_u:object_r:polaris_cmm_exec_t,s0)
/usr/binos/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
/usr/binos/bin/torhd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
/usr/binos/bin/swift_sampled -- gen_context(system_u:object_r:polaris_faked_exec_t,s0)
')

# PLEASE LOOK AT ME: why this file in /etc/init.d?
/etc/rc.d/init.d/cat9k_fpgahelper_funcs.sh -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/cat9k_kr_helper.sh -- gen_context(system_u:object_r:bin_t,s0)

# symbolic links in /platform-specific directory
/platform-specific/gryphon -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/gryphon_lite -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/prometheus -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/skyfox -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/vulcan -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/intrepid -l gen_context(system_u:object_r:root_t,s0)
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# /dev/cisco/dplriomem device, Generic Memory map driver for mapping doppler IO memory to userspace
/dev/cisco/dplriomem -c gen_context(system_u:object_r:polaris_dplr_iomem_mmapdrv_device_t,s0)

# provide relabeling rules for /platform-specific/personality file
# otherwise, they cause conflicting specifications error during relabeling
/platform-specific/bigbang/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/nyquist/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/passport/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/starfleet/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/intrepid/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/martion/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/farscape/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/borg/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/scorpion/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/imperial/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/jura/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)

/platform-specific/bigbang/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/nyquist/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/passport/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/starfleet/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/intrepid/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/martion/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/farscape/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/borg/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/scorpion/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/imperial/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/jura/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/quake1/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
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```
/platform-specific/jura/etc/selinux(/.*)?  gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/quake1/etc/selinux(/.*)?  gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/quake2/etc/selinux(/.*)?  gen_context(system_u:object_r:selinux_config_t,s0)

# /objstore/.swtam for hybrid TAM access
/objstore(/.*)?                                  gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

/platform-specific/bigbang/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/nyquist/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/passport/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/starfleet/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/intrepid/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/martian/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/farscape/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/borg/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/scorpion/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/imperial/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/jura/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake1/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake2/etc/selinux([\^\/]*/)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/bigbang/etc/hosts[\^\/]*/          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/nyquist/etc/hosts[\^\/]*/          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/passport/etc/hosts[\^\/]*/          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/starfleet/etc/hosts[\^\/]*/          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/intrepid/etc/hosts[\^\/]*/          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/martian/etc/hosts[\^\/]*/           -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/farscape/etc/hosts[\^\/]*/           -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/borg/etc/hosts[\^\/]*/              -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/scorpion/etc/hosts[\^\/]*/          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/imperial/etc/hosts[\^\/]*/           -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/jura/etc/hosts[\^\/]*/              -- gen_context(system_u:object_r:net_conf_t,s0)

/verify_packages.sh                                -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/verify_packages.sh      -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/verify_packages.sh      -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/verify_packages.sh     -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/verify_packages.sh    -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/verify_packages.sh     -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/verify_packages.sh      -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/verify_packages.sh     -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/verify_packages.sh         -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/verify_packages.sh     -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/verify_packages.sh     -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/verify_packages.sh         -- gen_context(system_u:object_r:bin_t,s0)
```

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# on pangea/bigbang platforms /dev/NVRAM block device is accessed
# by flashlib in iosd. It stores rommon vars
ifdef('bigbang_platform',

/dev/NVRAM -b gen_context(system_u:object_r:polaris_flashlib_device_t)

")

/vol/usb1(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

/mnt/vbd[a-j][1-9]2(/.*)? gen_context(system_u:object_r:polaris_obfbl_data_t,s0)

/tmp/fpga_upgrade gen_context(system_u:object_r:polaris_fpga_upgrade_tmp_t,s0)

# /ucode0 9300 silent roll
/ucode0(/.*)? gen_context(system_u:object_r:polaris_disk_ucode0_t,s0)

#/dev/cisco/fpgaiomem device, Generic Memory map driver for mapping FPGA IO memory to userspace
/dev/cisco/fpgaiomem -c gen_context(system_u:object_r:polaris_fpga_iomem_mmapfpga_device_t,s0)

# nplusm-power file is located in /bootflash and needs to be accessed by cman-rp/IOSd
flash1/user/nplusm-power gen_context(system_u:object_r:polaris_nplusm_power_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.fc
No license file was found, but licenses were detected in source scan.

#  
# June 2020, Cuiyan Ma  
#  
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# All rights reserved  
#  
/usr/binos/conf/issu_comp_check.sh -- gen_context(system_u:object_r:polaris_issu_comp_check_exec_t,s0)  
/tmp/boottime_comp_check_tree_other_rp -d gen_context(system_u:object_r:polaris_issu_comp_check_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.fc
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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# All rights reserved  
#  
## <summary>Polaris repm Policy Rules.</summary>

######################################  
## <summary>  
## Manage /tmp/replications files.  
## </summary>  
## <param name="domain">  
## <summary>  
## Domain allowed access.  
## </summary>  
## </param>  
#  
interface('polaris_repm_tmp_manage',`  
gen_require(`  
    type polaris_repm_tmp_t;  
`)  
manage_files_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)  
manage_dirs_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)  
`)  

######################################  
## <summary>  
## Manage /dev/shm/mq.-repm_peer_mq/ files. 
## </summary>  
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
#
interface(`polaris_repm_peer_mqipc_manage',`
    gen_require(`
        type polaris_repm_peer_mqipc_t;
    ')
    manage_files_pattern($1, polaris_repm_peer_mqipc_t, polaris_repm_peer_mqipc_t)
    allow $1 polaris_repm_peer_mqipc_t:file map:
        polaris_mqipc_create_name_dir($1, polaris_repm_peer_mqipc_t, repm_peer_mq)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`mqipc_interface_map', `defn(format(``mqipc_interface_map[%s]', `$1'))')
define(`mqipc_interface_map_set', `define(format(``mqipc_interface_map[%s]', `$1'), `$2')')

define(`polaris_mqipc_service_server_many',
    `ifelse($3, `',
        polaris_mqipc_create_name(dollarsone, $1, $2),
        polaris_mqipc_create_name(dollarsone, $1, $2-b$3)
    `ifelse($3, 0, `polaris_mqipc_create_name(dollarsone, $1, $2)', `polaris_mqipc_service_server_many($1, $2, eval($3 - 1))'))')

define(`polaris_mqipc_service_server_aux_full',`dnl

Initialization code for the polaris_mqipc_management function.
gen_require("
  type $2;
"
)$3
")

########################################################################
## <summary>
##	Use $2 mqipc channel.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(``polaris_mqipc_$1_use'',``
gen_require(`
  type $2;
")

  polaris_mqipc_use(dollarsone, $2)
")
')

')

define(`polaris_mqipc_service_server_aux',
ifelse(mqipc_interface_map($1), `', `polaris_mqipc_service_server_aux_full($1, $2, $3)')
)mqipc_interface_map_set($1, 1)
')

define(`polaris_mqipc_service_server',
dnl polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($3, $4, $2)))')

define(`polaris_mqipc_service_client',``)

define(`polaris_mqipc_service_server_elastic_client',
dnl polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($4, elastic, $3)))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_if.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.fc

No license file was found, but licenses were detected in source scan.

# November 2020, Christine Hwang
#
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#

policy_module(polarisbbu, 1.0);

gen_require(
    type polaris_bbu_t;
')

polaris_btrace_data_manage(polaris_bbu_t)
polaris_chasfs_manage(polaris_bbu_t)
polarishdlresolve_read(polaris_bbu_t)
polaris_cpld_read(polaris_bbu_t)
polaris_ripc_sman_ui_serv_connect(polaris_bbu_t)

# Allow I2C Usage
polaris_i2c_use(polaris_bbu_t)
polaris_i2c_sem_manage(polaris_bbu_t)

# Allow sysfs read for platform ID
dev_list_sysfs(polaris_bbu_t)

# Allow bbu to access NVRAM for /flash0/bbu
fs_getattr_tmpfs(polaris_bbu_t)
polaris_nvram_manage(polaris_bbu_t)

# Allow logger which is used for syslog messages
allow polaris_bbu_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_bbu_t)

# tty BBU device
type polaris_bbu_device_t;
dev_node(polaris_bbu_device_t)

polaris_bbu_dev_use(polaris_bbu_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

### <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

########################################
###       Execute a domain transition to run dmi_ports_fetch.
### </summary>
### <param name="domain">
###      Domain allowed to transition.
### </param>
#
interface(`polaris_dmi_ports_fetch_domtrans',`
    gen_require(`
        type polaris_dmi_ports_fetch_t, polaris_dmi_ports_fetch_exec_t;
    `)
    domtrans_pattern($1, polaris_dmi_ports_fetch_exec_t, polaris_dmi_ports_fetch_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmportsfetch.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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policy_module(polariscliagent, 1.0);

gen_require(
    type polaris_cli_agent_t;
)

polaris_btrace_data_manage(polaris_cli_agent_t)
polaris_crft_data_manage(polaris_cli_agent_t)
polaris_chasfs_manage(polaris_cli_agent_t)
polaris_tdlresolve_read(polaris_cli_agent_t)
polaris_tdlldb_list_dirs(polaris_cli_agent_t)
polaris_cpld_read(polaris_cli_agent_t)
polaris_flashlib_read(polaris_cli_agent_t)
polaris_ripc_sman_ui_serv_connect(polaris_cli_agent_t)
polaris_db_tdlldb_dir_use(polaris_cli_agent_t)
polaris_libciutil_build_config_directory(polaris_cli_agent_t)

# cli_agent /var/run pid file
type polaris_cli_agent_var_run_t;
files_pid_file(polaris_cli_agent_var_run_t)
manage_files_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
manage_dirs_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
files_pid_filetrans(polaris_cli_agent_t, polaris_cli_agent_var_run_t, { file dir })
polaris_cfg_data_manage(polaris_cli_agent_t)

# Provide sys_resource capability as well for sys_pipe calls
allow polaris_cli_agent_t self:capability { dac_override sys_resource };

logging_send_syslog_msg(polaris_cli_agent_t)

#DB persistence
polaris_tdlldbpersist_setup(polaris_cli_agent_t)
polaris_tmp_tdlldbPersist_setup(polaris_cli_agent_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
policy_module(polarisflashlib, 1.0);

type polaris_flashlib_lock_t;
files_type(polaris_flashlib_lock_t)

gen_require('attribute polaris_extended_domain;')

# /tmp/.flashlock file is used as flashlib lock
files_tmp_filetrans({ init_t polaris_extended_domain }, polaris_flashlib_lock_t, file, ".flashlock")

type polaris_flashlib_log_t;
files_type(polaris_flashlib_log_t)

gen_require('attribute polaris_extended_domain;')

# /tmp/flashdev.log file is used as flashlib to log
files_tmp_filetrans(polaris_extended_domain, polaris_flashlib_log_t, file, "flashdev.log")

# /dev/shm/flash_shm shared memory
type polaris_flash_shm_t;
files_type(polaris_flash_shm_t)

gen_require('attribute polaris_domain;
    type tmpfs_t;')
filetrans_pattern(polaris_domain, tmpfs_t, polaris_flash_shm_t, file, "flash_shm")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.te

No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
## <summary>Polaris CPLD Policy Rules.</summary>

# Quack Driver policy

### <summary>Work (read, write, ioctl) with /dev/quack</summary>

### <param name="domain">Domain allowed access.</param>

`interface('polaris_quack_dev_use',`

`gen_require(`

type device_t;

type polaris_quack_device_t;
`')

write_chr_files_pattern($1, device_t, polaris_quack_device_t)

read_chr_files_pattern($1, device_t, polaris_quack_device_t)
`')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.if

No license file was found, but licenses were detected in source scan.

#

# October 2017, Victor Kamensky

#

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#

## <summary>Polaris wstatsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.if

No license file was found, but licenses were detected in source scan.

dnl
dnl Mar 2020, Manu Roy
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Petra Platform Max Bay Limits
max_bay_map_set(`rp`, `per_bay`, 0)
max_bay_map_set(`cc`, `per_bay`, 0)
max_bay_map_set(`fp`, `per_bay`, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/petramaps.m4
No license file was found, but licenses were detected in source scan.

---

# October 2017, Victor Kamensky
#
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#

policy_module(polariswstatsd, 1.0);

gen_require(
    type polaris_wstatsd_t;
')

polaris_btrace_data_manage(polaris_wstatsd_t)
polaris_crft_data_manage(polaris_wstatsd_t)
polaris_chasfs_manage(polaris_wstatsd_t)
polaris_tdlresolve_read(polaris_wstatsd_t)
polaris_tdldb_list_dirs(polaris_wstatsd_t)
polaris_cpld_read(polaris_wstatsd_t)
polaris_lua_read(polaris_wstatsd_t)
polaris_flashlib_read(polaris_wstatsd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wstatsd_t)
polaris_db_tdldb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setopt getattr };
corenets_udp_bind_generic_node(polaris_wstatsd_t)
corenets_udp_bind_polaris_capwap_data_port(polaris_wstatsd_t)
polaris_socketat_nsfs_read(polaris_wstatsd_t)
polaris_lfts_dev_use(polaris_wstatsd_t)
polaris_tdldbpersist_setup(polaris_wstatsd_t)
polaris_tmp_tdldb_persist_setup(polaris_wstatsd_t)

logging_send_syslog_msg(polaris_wstatsd_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wstatsd_t)

#this is being given for process to execute tar
corecmd_exec_bin(polaris_wstatsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.te
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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#

policy_module(polarisfnfagg, 1.0);

gen_require(
    type polaris_fnf_agg_t;
    
)

polaris_btrace_data_manage(polaris_fnf_agg_t)
polaris_crft_data_manage(polaris_fnf_agg_t)
polaris_chasfs_read(polaris_fnf_agg_t)
polaris_tdlresolve_read(polaris_fnf_agg_t)
polaris_lua_read(polaris_fnf_agg_t)
polaris_flashlib_read(polaris_fnf_agg_t)
polaris_cpld_read(polaris_fnf_agg_t)
polaris_ripc_sman_ui_serv_connect(polaris_fnf_agg_t)
polaris_db_tdldb_dir_use(polaris_fnf_agg_t)

allow polaris_fnf_agg_t self:capability { dac_override dac_read_search };

type polaris_fnf_agg_tmp_t;
files_tmp_file(polaris_fnf_agg_tmp_t)
files_tmp_filetrans(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, dir, "fnf_agg")
manage_files_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)
manage_dirs_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)

# allow sending files over HTTP
corenet_tcp_connect_http_port(polaris_fnf_agg_t)
sysnet_read_config(polaris_fnf_agg_t)

# allow UDP connection for punting fnf records
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg }
corenet_udp_bind_generic_node(polaris_fnf_agg_t)

# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
#
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#

## <summary>Polaris VXE Platform Policy Rules.</summary>

interface(`polaris_objstore_sem_use','
  gen_require(
    type polaris_objstore_sem_t;
  )
  allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
  mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
  manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
')

########################################################################################################################
## <summary>
## Work (read, write, ioctl) with /dev/vda1 device
## </summary>
## <param name="domain">
##   Domain allowed access.
## <//summary>
## </param>
#
interface(`polaris_grub_efi_use','
  gen_require(
    type polaris_grub_efi_t;
  )
  write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
  read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

########################################################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_grub_efi_search`,
      gen_require(`
          type polaris_grub_efi_t;
')
      search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

########################################################################
## <summary>
## Read VXE install info files
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vxeinstall_info_read`,
      gen_require(`
          type polaris_vxeinstall_info_t;
')
      read_files_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
      list_dirs_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
')

########################################################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_grub_info_read`,
      gen_require(`
          type polaris_grub_info_t;
')
      search_dirs_pattern($1, polaris_grub_info_t, polaris_grub_info_t)
')
gen_require('type polaris_grubver_t;
type polaris_grub_bios_t;
type polaris_grub_efi_t;')
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

******************************************************************************
## <summary>
## Manage /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##     <summary>
##          Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_grubcfg_manage',
    gen_require('type polaris_grub_bios_t;
type polaris_grub_efi_t;')
manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

******************************************************************************
## <summary>
## Manage regular files/directories under /varied/grub
## CSR manages files in legacy grub disk location
## also allow run readlink -f /dev/bootflash
## </summary>
## <param name="domain">
##     <summary>
##          Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_legacy_grub_manage',
gen_require('...
type boot_t;
type fixed_disk_device_t;
')
manage_files_pattern($1, boot_t, boot_t)
manage_dirs_pattern($1, boot_t, boot_t)
storage_getattr_fixed_disk_dev($1)
')

# <summary>
# Work (read, write, ioctl) with /dev/hanet
# hanet driver used by vpcgw platform of VXE family
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
#ifdef(`vpcgw_platform',`
interface(`polaris_hanet_dev_use',`
gen_require(`
    type device_t;
type polaris_hanet_device_t;
')
write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
')
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/pman.sh -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/usr/bin/pman -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/usr/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/tmp/pman_ports(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fp/process(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 10080

/tmp/rp/process(/.*)?
/tmp/vxe_ucode_image
/tmp/wlc_ucode_image
/tmp/utah_ucode_image
/tmp/fugazi_ucode_image

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl Macallan Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 9)
max_bay_map_set(`fp', `per_bay', 9)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 10)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 10)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

corecmd_exec_bin(polaris_issu_stack_t)
corecmd_exec_shell(polaris_issu_stack_t)

libs_exec_ld_so(polaris_issu_stack_t)
auth_use_nsswitch(polaris_issu_stack_t)
kernel_read_system_state(polaris_issu_stack_t)

allow polaris_issu_stack_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_issu_stack_t)
polaris_chasfs_manage(polaris_issu_stack_t)
polaris_cpld_read(polaris_issu_stack_t)
polaris_proc_rmonbifo_read(polaris_issu_stack_t)
polaris_rmonbifo_tmp_read(polaris_issu_stack_t)
polaris_boot_tmp_read(polaris_issu_stack_t)
polaris_tdlresolve_read(polaris_issu_stack_t)
polaris_disk_crashinfo_getattr(polaris_issu_stack_t)
allow polaris_issu_stack_t self:capability dac_override;

polaris_read_debug_conf(polaris_issu_stack_t)

polaris_flashlib_read(polaris_issu_stack_t)

allow polaris_issu_stack_t self:process setpgid;

# modify tdlresolve epoch
polaris_tdlresolve_manage(polaris_issu_stack_t)

#rsync_exec(polaris_issu_stack_t)
gen_require('
    type rsync_t;
    
')
rsync_entry_domtrans(polaris_issu_stack_t, rsync_t)
allow rsync_t polaris_issu_stack_t:process sigchld;

# execute rsync over eobc: /usr/binos/conf/mcp_chvrf.sh eobc rsync
polaris_chvrf_domtrans(polaris_issu_stack_t)
# from chvrf.sh code executes rsync command
gen_require('
    type polaris_chvrf_t;
    
')
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
# LOOK AT ME: issu_stack.sh leaks fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
manage_fifo_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
write_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_engine_domtrans(polaris_issu_stack_t)
# LOOK AT ME: isse_stack.sh leak fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
gen_require('
    type polaris_install_engine_t;
    
')
read_fifo_files_pattern(polaris_install_engine_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_tmp_read(polaris_issu_stack_t)

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_issu_stack_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_issu_stack_t)

# reads /tmp/remote_sw_verinfo.txt
gen_require(
    type rsync_tmp_t;
)
read_files_pattern(polaris_issu_stack_t, rsync_tmp_t, rsync_tmp_t)

# watch over /tmp/tdlresolve/work
polaris_tdlresolve_watch(polaris_issu_stack_t)

#issu_stack.sh access to epoch_merge.lua,epoch_endpoint_update.lua
polaris_lua_read(polaris_issu_stack_t)

#issu_stack.sh access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_issu_stack_t)

#issu_stack.sh access to epoch_merge.lua which merges epoch files, local.epoch and inyterchassis/.epcioh file
#luajit/usr/binos/conf/epoch_merge.lua--base-file/tmp/tdlresolve/epoch_dir/local.epoch
#--merge-file/tmp/tdlresolve/work/inter
allow polaris_issu_stack_t self:process execmem;

#access to /tmp/installer/
polaris_install_tmp_manage(polaris_issu_stack_t)

#access to /tmp/ufs/harddisk
polaris_ncd_tmp_read(polaris_issu_stack_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_stack_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarislsmpi, 1.0);

******************************************************************************
# Polaris lsmpi
******************************************************************************

type polaris_lsmpi_device_t;
device(polaris_lsmpi_device_t)
[36x36]Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 10084

# note polaris_sysfs_contdev_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

# punt/inject working through unix domain sockets
type polaris_pi_uds_t;
files_tmp_file(polaris_pi_uds_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris mdt_pubd Policy Rules.</summary>

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

policy_module(polarismd, 1.0);

gen_require(
    type polaris_emd_t;
')

polaris_btrace_data_manage(polaris_emd_t)
polaris_crft_data_manage(polaris_emd_t)
polaris_chasfs_manage(polaris_emd_t)
polaris_tdlresolve_read(polaris_emd_t)
polaris_tdlldb_list_dirs(polaris_emd_t)
polaris_cpld_read(polaris_emd_t)
polaris_flashlib_read(polaris_emd_t)
polaris_ripc_sman_ui_serv_connect(polaris_emd_t)
polaris_cpld_dev_use(polaris_emd_t)
dev_read_sysfs(polaris_emd_t)
polaris_obfl_data_manage(polaris_emd_t)
polaris_persistent_read(polaris_emd_t)

allow polaris_emd_t self:capability dac_override;

ifdef(`mcp_family',
polaris_scooby_dev_use(polaris_emd_t)
# read/write /sys/bus/i2c/drivers/pca9544/2-0077/reg_control and others
dev_getattr_sysfs_fs(polaris_emd_t)
dev_rw_sysfs(polaris_emd_t)
')

logging_send_syslog_msg(polaris_emd_t)

ifdef(`qwlc_platform',
# on qwlc read eeprom through i2c like /sys/devices/i2c-12/12-0050/eeprom
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

#ifdef(`sparrow_platform',
gen_require(
    type polaris_cm_cc_tmpfs_t;
')
polaris_i2c_use(polaris_emd_t)
polaris_i2c_sem_manage(polaris_emd_t)
mmap_files_pattern(polaris_emd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

ifdef(`katar_platform',
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.te
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#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisdroputil Policy Rules.</summary>

```
########################################
## <summary>
##      Manage droputils temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_droputil_manage_tmp_files',
   gen_require(
       type polaris_droputil_tmp_t;
   ')

   manage_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
   read_link_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
')

########################################
## <summary>
##      Watch droputil_tmp directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface(`polaris_droputil_tmp_watch',
    gen_require(
        type polaris_droputil_tmp_t;
    ')
    allow $1 polaris_droputil_tmp_t:dir watch;
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/iosd_level -- gen_context(system_u:object_r:polaris_lm_tmp_t.s0)
/tmp/stack_apcount -- gen_context(system_u:object_r:polaris_lm_tmp_t.s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.fc
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

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define(`polaris_ripc_service_server',`')
define(`polaris_ripc_service_client',`')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_fc.m4
No license file was found, but licenses were detected in source scan.

dnl

dnl December 2018, Victor Kamensky

dnl

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dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake1maps.m4
No license file was found, but licenses were detected in source scan.

#  
# Sep 2020, Sridhar C  
#  
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#  

policy_module(polaristlscd, 1.0);

gen_require('  
    type polaris_tlsced_t;  
    type net_conf_t;  
')

polaris_btrace_data_manage(polaris_tlsced_t)  
polaris_chasfs_manage(polaris_tlsced_t)  
polaris_tdlresolve_read(polaris_tlsced_t)  
polaris_tdlldb_list_dirs(polaris_tlsced_t)  
polaris_lua_read(polaris_tlsced_t)  
polaris_flashlib_read(polaris_tlsced_t)  
polaris_chasfs_read(polaris_tlsced_t)  
polaris_cpld_read(polaris_tlsced_t)  
polaris_db_tdlldb_dir_use(polaris_tlsced_t)  

# Related to vrf support of the socket  
polaris_lfts_dev_use(polaris_tlsced_t)  
polaris_socketat_nsfs_read(polaris_tlsced_t)  
polaris_vrf_shm_manage(polaris_tlsced_t)  

# TLSCd reads TCP/UDP ports open in VRF_GLOBAL for packet forwarding  
# to IOSd or BinOS applications.  
kernel_read_net_sysctls(polaris_tlsced_t)  
kernell_read_network_state(polaris_tlsced_t)  
kernell_search_network Sysctl(polaris_tlsced_t)  
allow polaris_tlsced_t net_conf_t:dir search;  
allow polaris_tlsced_t net_conf_t:file { getattr open read watch };  

# UDS related sockets are:  
# /tmp/tlsd/iosd_to_tlsd_0_socket  
# /tmp/tlsd/tlsd_to_iods_0_socket  
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind  
type polaris_tlsced_uds_t;  
files_tmp_file(polaris_tlsced_uds_t)  
polaris_tlsced_uds_manage(polaris_tlsced_t)  
polaris_iosd_dgram_send(polaris_tlsced_t)  
allow polaris_tlsced_t self:unix_dgram_socket { bind create };
# Tunnel and TLS TCP connection related

corenets_tun_tap_dev(polaris_tlscd_t)
allow polaris_tlscd_t self:tun_socket create;
corenets_tcp_connect_all_ports(polaris_tlscd_t)

# errmsg
logging_send_syslog_msg(polaris_tlscd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.te

No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
define(`polaris_database_aux',`dnl
type $1;
polaris_tdldb_type($1)
')

define(`polaris_database',`dnl
polaris_database_aux(database_label($1))
')

define(`polaris_database_process_aux_full',`dnl
gen_require(`
    type $2;
  `)
polaris_db_tdldb_$1_use($2)
')

define(`polaris_database_process_aux',`dnl
ifelse(database_use_map($1, $2), ``, `polaris_database_process_aux_full($1, $2')
database_use_map_set($1, $2, 1)
')

define(`polaris_database_process',`dnl
polaris_database_process_aux(database_stem($1), process_label($2))dnl
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_te.m4
No license file was found, but licenses were detected in source scan.

#  
# January 2021, Gabriel Lee, Shawn Liu  
#  
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#  
## <summary>Polaris ezmanage Policy Rules.</summary>
## <summary>Transition to ezmanage</summary>  
## <param name="domain">  
## Domain allowed to transition.  
## </param>  
#  
# interface('polaris_ezmanage_domtrans',
# gen_require(
# type polaris_ezmanage_t, polaris_ezmanage_exec_t;
# ')

domtrans_pattern($1, polaris_ezmanage_exec_t, polaris_ezmanage_t)
')

## <summary>
## Read files under polaris_ezmanage_file_t label
## </summary>  
## <param name="domain">
## Domain allowed access.
## </param>  
#  
# interface('polaris_manage_ezmanage_files',
# gen_require(
# type polaris_ezmanage_file_t;
# ')

manage_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
read_lnk_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
manage_dirs_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
')
## <summary>
## Manage files under polaris_ezmanage_var_run_t label
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
#
interface('polaris_management_ezmanage_var_run_files',
  gen_require('type polaris_ezmanage_var_run_t;
  ')
  manage_sock_files_pattern($1, polaris_ezmanage_var_run_t, polaris_ezmanage_var_run_t);
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polariscedge, 1.0);

# /tmp/xml handling
type polaris_cedge_xml_tmp_t;
files_tmp_file(polaris_cedge_xml_tmp_t)

# PLEASE LOOK AT ME very strange choice of directory name
# /tmp/tmp/ handling
type polaris_cedge_tmp_t;
files_tmp_file(polaris_cedge_tmp_t)

# /etc/viptela handling
type polaris_cedge_etc_t;
files_config_file(polaris_cedge_etc_t)

# /dev/shm handling
type polaris_cedge_tmpfs_t;
files_tmpfs_file(polaris_cedge_tmpfs_t)

# /tmp/econfd2sysmgr-ipc handling
type polaris_econfd2sysmgr_tmp_t;
files_tmp_file(polaris_econfd2sysmgr_tmp_t)

# vconfd_script_reboot.sh policy
polaris_vconfd_domain_template(vconfd_reboot)

# vconfd_script_if_reset.sh policy
polaris_vconfd_domain_template(vconfd_ifreset)

# vconfd_script_get_config.sh policy
polaris_vconfd_domain_template(vconfd_cfg)

#########################################################################
# vconfd_script_*_stats policy
polaris_vconfd_domain_template(vconfd_history)
corecmd_exec_bin(polaris_vconfd_history_t)

# performs 'rm /tmp/xml/Pfr/Pfr-1600801323.xml.gz'....but, do not know where
polaris_cedge_tmp_file(polaris_vconfd_history_t)

# performs 'ls -rt /tmp/xml/UtdUUrlf-IOX' etc.
polaris_cedge_xml_tmp_file(polaris_vconfd_history_t)

# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXX
polaris_vconfd_tmp_file(polaris_vconfd_history_t)
#########################################################################
# software policy
polaris_vconfd_domain_template(vconfd_software)

# nms policy
polaris_vconfd_domain_template(vconfd_nms)

# device policy
polaris_vconfd_domain_template(vconfd_device)

# internal policy
polaris_vconfd_domain_template(vconfd_internal)

# cert policy
polaris_vconfd_domain_template(vconfd_cert)

#########################################################################
# csr policy
polaris_vconfd_domain_template(vconfd_csr)
# vconfd_script_show_csr.sh invokes vlog
# /bin/sh vlog ....
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_vconfd_csr_t)
corecmd_exec_bin(polaris_vconfd_csr_t)

# reads /usr/share/viptela/server.csr
polaris_bootflash_read(polaris_vconfd_csr_t)

# serial vsmart-upload vedge-upload policy
polaris_vconfd_domain_template(vconfd_serialnum)

# crash policy
polaris_vconfd_domain_template(vconfd_crash)

# aaa policy
polaris_vconfd_domain_template(vconfd_aaa)

# container policy
polaris_vconfd_domain_template(vconfd_contr)

# iox policy
polaris_vconfd_domain_template(vconfd_iox)

# utd policy
polaris_vconfd_domain_template(vconfd_utd)

# geo policy
polaris_vconfd_domain_template(vconfd_geo)

# vconfd_script_vnping.sh, vconfd_script_vping.sh, vconfd_script_vtraceroute.sh
# scripts policy
polaris_vconfd_domain_template(vconfd_net)

# runs ip command
sysnet_domtrans_ifconfig(polaris_vconfd_net_t)
# runs confd_cmd
corecmd_exec_bin(polaris_vconfd_net_t)
polaris_confd_connect(polaris_vconfd_net_t)

# /tmp/ polaris_vconfd_cert_t handling
type polaris_vconfd_cert_tmp_t;
files_tmp_file(polaris_vconfd_cert_tmp_t)
files_tmp_filetrans(polaris_vconfd_cert_t, polaris_vconfd_cert_tmp_t, { file dir })
polaris_vconfd_cert_tmpmanage(polaris_vconfd_cert_t)

# permit access to polaris_vconfd_cert_t
allow polaris_vconfd_cert_t self:capability { chown dac_override };

logging_send_syslog_msg(polaris_vconfd_cert_t)
corecmd_sbin_entry_type(polaris_vconfd_cert_t)
corecmd_shell_entry_type(polaris_vconfd_cert_t)
fs_read_nsfs_files(polaris_vconfd_cert_t)
logging_create_devlog_dev(polaris_vconfd_cert_t)

# to access the /bootflash: as the cert is stored in /bootflash:
# IOS cert related CLIs can create/store the certs in /bootflash with any
# file name(s), so allow generic access to bootflash.
polaris_bootflash_manage(polaris_vconfd_cert_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vconfd_cert_t)
polaris_cedge_reset_ns(polaris_vconfd_cert_t)

# needed for accessing /tmp/chassis/local/rp/chasfs/midplane/chassis_model
polaris_chasfs_read(polaris_vconfd_cert_t)

#access to /etc/viptela
gen_require(`
    type polaris_nginx_t;
')
polaris_cedge_etc_manage(polaris_nginx_t)

# For "confd_cmd", allow polaris_vconfd_cert_t, which is not a Binos process,
# to access polaris_confd_ipc_ripc_port_t.
polaris_ripc_confd_ipc_connect(polaris_vconfd_cert_t)

# permit to access /var/run/netns/default
sysnet_manage_ifconfig_run(polaris_vconfd_cert_t)

# vconfd_script_show_root_ca_cert.sh performs operations on
# /tmp/vconfd/root_cert.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_cert_t)
fs_getattr_tmpfs(polaris_vconfd_cert_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscagedge.te
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## <summary>Polaris CPLD Policy Rules.</summary>

# CPLD Driver policy

### <summary>Read cpld files in /sys directory</summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_cpld_read`,
  gen_require(`
    type polaris_sysfs_cpld_t;
    type sysfs_t;
  `)
  read_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file { read getattr);
list_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
`)

### <summary>Write cpld files in /sys directory</summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_cpld_write','
gen_require('
type polaris_sysfs_cpld_t;
    type sysfs_t;
')
    manage_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    manage_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    # genfscon statement specifically excludes symbolic links from
    # genfscon path specific entries. To workaround, let us allow
    # to follow sysfs_t symbolic links
    allow $1 sysfs_t:lnk_file { read getattr };
')

####################################
## <summary>
##      Work (read, write, ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpld_dev_use','
gen_require('
type device_t;
type polaris_cpld_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    allow $1 polaris_cpld_device_t:chr_file map;
')

####################################
## <summary>
##      Work (read,ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpld_dev_read','
gen_require('
type device_t;
type polaris_cpld_device_t;
')
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.if
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#
# August 2017, Victor Kamensky
#
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#

policy_module(polariscrankshaft, 1.0);

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# bde device (/dev/linux-user-bde)
type polaris_bde_device_t;
dev_node(polaris_bde_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# nios device (/dev/nios)
type polaris_nios_device_t;
dev_node(polaris_nios_device_t)

# qae device (/dev/qae_mem)
type polaris_qae_device_t;
dev_node(polaris_qae_device_t)

# moka fpga device (/dev/moka_fpga)
type polaris_mokafpga_device_t;
dev_node(polaris_mokafpga_device_t)

# sirius fpga device (/dev/sirius_fpga)
type polaris_siriusfpga_device_t;
dev_node(polaris_siriusfpga_device_t);
# moka nim device (/dev/nim_dm*)
type polaris_nim_dm_device_t;
device_node(polaris_nim_dm_device_t)

# /dev/bp_async device on nanook platform
type polaris_bp_async_device_t;
device_node(polaris_bp_async_device_t)

# /dev/sparrow_psu device on sparrow platform
type polaris_sparrow_psu_device_t;
device_node(polaris_sparrow_psu_device_t)

# /dev/nutella_fpga device on nutella platform
type polaris_nutella_fpga_device_t;
device_node(polaris_nutella_fpga_device_t)

# /dev/huron_fpga on Sumatra platform
type polaris_huron_device_t;
device_node(polaris_huron_device_t)

# /dev/dplr_sumatra on Sumatra platform
type polaris_sumatra_doppler_device_t;
device_node(polaris_sumatra_doppler_device_t)

# /tmp/sata_status for mSATA
type polaris_sata_status_tmp_t;
files_tmp_file(polaris_sata_status_tmp_t)

# TSN tsn_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_NGWC_FED - crankshaft_platform.tdl refers it but
# tsn_platform.tdl does not contain such definition.
ifdef(`tsn_platform',`
    type polaris_ngwc_fed_t;
')

# Supernova supernova_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_FM_RP - crankshaft_platform.tdl refers it but
# supernova_platform.tdl does not contain such definition.
ifdef(`supernova_platform',`
    type polaris_fman_rp_t;
')

# Nanook
# The Nanook platform does not support SDWAN and so the SDWAN processes are not
# defined in the nanook_platform.tdl. However, it uses the database_def's from
# the crankshaft_platform.tdl, which do have the SDWAN databases. So we need to
# add the processes to the SELinux policy
ifdef(`nanook_platform',`
  type polariscfgmgr_t;
  type polariscxp_t;
  type polarisdhgd_t;
  type polarisfpm_t;
  type polarisftm_t;
  type polarisomp_t;
  type polarissdavc_proxy_t;
  type polaris_ttm_t;
  type polaris_vdaemon_t;
  type polaris_htx_t;
')

  # load_usbnet policies start
  #########################################################################
  # /usr/bin/os/conf/load_usbnet.sh is invoked to load usb network driver module
  # kernel/drivers/net/usb/usbnet.ko for TSN.
  #########################################################################
  polaris_process_domain_template(load_usbnet)

  # allow polaris_load_usbnet_t access to execute programs in system bin dirs, load
  # usbnet.ko for USB network interface for TSN and allow read access
  # to /sys/class/net and /proc/cmdline
  # LOOK AT ME: /tmp/rp/pvp/work/inot_fifo inotifywait fd leak to child
corecmd_exec_bin(polaris_load_usbnet_t)
  modutils_exec_insmod(polaris_load_usbnet_t)
  modutils_list_module_config(polaris_load_usbnet_t)
  modutils_read_module_config(polaris_load_usbnet_t)
  sysnet_manage_config_dirs(polaris_load_usbnet_t)
  polaris_pyp_stdin_read(polaris_load_usbnet_t)
  files_read_kernel_modules(polaris_load_usbnet_t)
  dev_rw_sysfs(polaris_load_usbnet_t)
  kernel_read_system_state(polaris_load_usbnet_t)

  # stdout inherited from unconfined_service that might call it
  polaris_unconfined_service_fifo_file_manage(polaris_load_usbnet_t)

  # handle /tmp/load_usbnet_intf
  type polaris_load_usbnet_tmph_t;
  files_tmp_file(polaris_load_usbnet_tmph_t)
  files_tmp_filenet(polaris_load_usbnet_t, polaris_load_usbnet_tmph_t, file)
  manage_files_pattern(polaris_load_usbnet_t, polaris_load_usbnet_tmph_t, polaris_load_usbnet_tmph_t)
# allow read of /etc/passwd
# allow map permission
# passwd_file_t:file { getattr open read }
auth_map_passwd(polaris_load_usbnet_t)

################################################################################
# load_usbnet policies end
################################################################################

################################################################################
# CLI: show platform hardware msata <status/info>
################################################################################
ifdef(`crankshaft_family',`
  gen_require(`
    type polaris_sysfs_gpio_t;
    type polaris_msata_info_t;
  `)
)
  polaris_utility_domain_template(msata_info)
polaris_bexecute_domain(polaris_msata_info_t, polaris_msata_info_exec_t)
  # need write for pipes like "pipe:[70623]"
corecmd_exec_bin(polaris_msata_info_t)
  # need write/getattr for pipes like "pipe:[71322]"
polaris_cmos_use_fifo(polaris_msata_info_t)
fstools_domtrans(polaris_msata_info_t)
  # allow use of mSATA device
polaris_nvram_manage(polaris_msata_info_t)
  # allow self
  allow polaris_msata_info_t self:capability sys_rawio;
  allow polaris_msata_info_t self:process setfscreate;
  # allow /usr/sbin/smartctl to access /sys/devices/platform/cpn-110-master/
  # cpn-110-master:config-space/1540000.sata/ata2/host1/scsi_host/host1/proc_name and
  # /sys/devices/platform/cpn-110-master/cpn-110-master:config-space/1540000.sata/
  # ata2/host1/target1:0:0
  read_files_pattern(polaris_msata_info_t, polaris_sysfs_gpio_t, polaris_sysfs_gpio_t)
dev_list_sysfs(polaris_msata_info_t)
  # allow smartctl to access to /dev/sda to determine its lifetime
storage_raw_read_fixed_disk(polaris_msata_info_t)

  # CLI: show platform hardware slot [x] fan eeprom
  polaris_utility_domain_template(smart_fan)
polaris_bexecute_domain(polaris_smart_fan_t, polaris_smart_fan_exec_t)
  # allow /ls command
corecmd_exec_bin(polaris_smart_fan_t)
  # allow read of /etc/passwd
auth_map_passwd(polaris_smart_fan_t)
  # allow read of /sys/devices/platform/nios/*
dev_read_sysfs(polaris_smart_fan_t)
# need write/getattr access for pipes like "pipe:[86004]"
polaris_cmrp_use_fifo(polaris_smart_fan_t)

# sumatra and sparrow platforms need map access for "show platform hardware msata status | lifetime"
auth_map_passwd(polaris_msata_info_t)

```
ifdef(`sumatra_platform`

# During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
files_tmp_filetrans(polaris_msata_info_t, polaris_sata_status_tmp_t, file)
manage_files_pattern(polaris_msata_info_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t)
```

# show platform hardware msata end

###

type for /dev/qcqmiX

type qcqmi_device_t;
dev_node(qcqmi_device_t);

# sm_nim_adpt device (/dev/sm_nim_adpt_xxx )

type polaris_sm_nim_adpt_device_t;
dev_node(polaris_sm_nim_adpt_device_t)

# dio device

type polaris_dio_device_t;
dev_node(polaris_dio_device_t)

# tty NMEA device

type polaris_tty_NMEA_device_t;
dev_node(polaris_tty_NMEA_device_t)

# memory blocks and gpp on Nutella-XE platform

type polaris_nutella_memory_block_p7_t;
dev_node(polaris_nutella_memory_block_p7_t)

type polaris_nutella_memory_block_p1_t;
dev_node(polaris_nutella_memory_block_p1_t)

type polaris_nutella_memory_block_boot_t;
dev_node(polaris_nutella_memory_block_boot_t)

type polaris_nutella_gp0_t;
dev_node(polaris_nutella_gp0_t)

type polaris_nutella_gpp_t;
dev_node(polaris_nutella_gpp_t)
# nim device (/dev/nim_phy)
type polaris_nim_phy_device_t;
dev_node(polaris_nim_phy_device_t)

type polaris_cwan_svr_var_run_t;
files_pid_file(polaris_cwan_svr_var_run_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.te
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#
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#
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#

## <summary>Polaris epc_ws_liaison Policy Rules.</summary>

interface(`polaris_epc_ws_liaison_tmp_read',
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    `)
    read_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

########################################
## <summary>
##      Allow to open, write, add_name and write /tmp/epc_ws/fed_to_wif_pipe file. 
##      Allow to create and write /tmp/epc_ws dir. 
## </summary>
## <param name="domain">
##    <summary>
##      epc_ws_liaison and ngwc-fed fifo_file interaction. 
##    </summary>
## <//param>
#
interface(`polaris_epc_ws_liaison_fifo_manage',
    gen_require(`
        type polaris_epc_ws_liaison_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
    manage_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

########################################
## <summary>
## Allow to open, read "/tmp/epc_ws/wif_to_ts_pipe" fifo file.
##
## </summary>
## <param name="domain">
## epc_ws_liaison and dumpcap fifo_file interaction.
## </param>
#
interface(`polaris_epc_ws_liaison_fifo_read',
   gen_require(
      type polaris_epc_ws_liaison_tmp_t;
   )
   read_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

#############################################################################
## <summary>
## Allow to write, create, unlink "/tmp/*.pcapng" temporary files.
##
## </summary>
## <param name="domain">
## polaris_wireshark_show fifo_file interaction.
## </param>
#
interface(`polaris_wireshark_show_tmp_manage',
   gen_require(
      type polaris_wireshark_show_tmp_t;
   )
   manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
')

#############################################################################
## Create, read, and write temporary files.
##
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_epc_ws_liaison_tmp_file',
   gen_require(
      type polaris_epc_ws_liaison_tmp_t;
   )
)
files_tmp_filetrans($1, polaris_epc_ws_liaison_tmp_t, dir, "epc_ws")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispcwsliaison.if
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#
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#
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#

policy_module(polariscxp, 1.0);

gen_require(
    type polaris_cxp_t;
)
polaris_chasfs_read(polaris_cxp_t)
polaris_cpld_read(polaris_cxp_t)

logging_send_syslog_msg(polaris_cxp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_cxp_t)

corecmd_exec_bin(polaris_cxp_t)
corecmd_exec_shell(polaris_cxp_t)
auth_use_nsswitch(polaris_cxp_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cxp_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cxp_t)

#/var/run/exp dir and pid
type polaris_cxp_var_run_t;
files_pid_file(polaris_cxp_var_run_t)
manage_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_dirs_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_sock_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
files_pid_filetrans(polaris_cxp_t, polaris_cxp_var_run_t, { file dir sock_file })
polaris_ttm_var_sock_write(polaris_cxp_t)

# vip_execute_nowait uses setpgid
allow polaris_cxp_t self:process setpgid;

# cxp may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_cxp_t)

# Allow /usr/cxp manages /usr/binos/conf/global.service.conf and
# /tmp/tdlresolve/
polaris_tdlresolve_manage(polaris_cxp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.te
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#
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#

/usr/binos/conf/viptela-start.sh -- gen_context(system_u:object_r:polaris_cedge_start_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.fc
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dnl
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dnl
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dnl All rights reserved
dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_te.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformdbauto, 1.0);
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_te.m4
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#  
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#  
## <summary>Polaris vman Policy Rules.</summary>  

#######################################  
## <summary>  
##      Read files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)  
## </summary>  
## <param name="domain">  
##      <summary>  
##      Domain allowed access.  
##      </summary>  
## </param>  
#  
# interface('polaris_vman_tmp_read',`  
# gen_require(  
#     type polaris_vman_tmp_t;  
# )  
# read_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)  
# ')  

#######################################  
## <summary>  
##      Write files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)  
## </summary>  
## <param name="domain">  
##      <summary>  
##      Domain allowed access.  
##      </summary>  
## </param>  
#  
# interface('polaris_vman_tmp_write',`  
# gen_require(  
#     type polaris_vman_tmp_t;  
# )  
# write_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)  
# ')
### <summary>
### Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_vman_tmp_manage',
    gen_require(
        type polaris_vman_tmp_t;
        )
        manage_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
        manage_dirs_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
    )

### <summary>
### Read files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_disk_vman_read',
    gen_require(
        type polaris_disk_vman_t;
        )
        read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
        read_lnk_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
        list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
    )

### <summary>
### List files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_disk_vman_dir_list',
    gen_require(
        type polaris_disk_vman_t;
        )
        read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
        read_lnk_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
        list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
    )
gen_require(`
    type polaris_disk_vman_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
`)
list_dirs_pattern($1, { polaris_disk_vman_t polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
`)

******************************************************************************
## <summary>
## Operate on @vman_domain_socket unix socket. Look at
## vman_clnt_msg_transport_init function in vman_clnt_msg_uds.c
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_vman_use_client_socket',`
    gen_require(`
        type polaris_vman_t;
    `)
    allow $1 polaris_vman_t:unix_stream_socket connectto;
`)

******************************************************************************
## <summary>
## Manage /tmp/xml/
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_vman_log_files_manage',`
optional_policy(`
    gen_require(`
        type polaris_vman_log_t;
    `)
    manage_files_pattern($1, polaris_vman_log_t,polaris_vman_log_t)
    manage_dirs_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
`)


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## <summary>
## Read files of type polaris_var_vman_t (e.g., /var/virtual-instance)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_vman_var_read',

    gen_require(
        type polaris_var_vman_t;
    )
    list_dirs_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
    read_files_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
')

## <summary>
## Write into fifo file created by vman, typical case when
## vman starts script under popen in different domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_vman_use_fifo',

    gen_require(
        type polaris_vman_t;
    )
    read_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
    write_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
')

## <summary>
## Check existence (getattr) of vman btrace file (i.e polaris_vman_bt_t)
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.

```c

interface('polaris_vman_bt_getattr',
          gen_require(
            type polaris_vman_bt_t;
            type polaris_btrace_base_t;
          )
        getattr_files_pattern($1, polaris_btrace_base_t, polaris_vman_bt_t)
    )

########################################

## Allow domain to write to pipes connected to virtlogd_t.
##
## <summary>
##      Allow domain to write to pipes connected to virtlogd_t.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_vman_virtlog_allow',
          gen_require(
            type virtlogd_t;
          )
        #allow domain to write to pipes
        allow $1 virtlogd_t:fifo_file rw_inherited_fifo_file_perms;

        #allow virtlogd_t to search dirs /var/log/libvirt/qemu
        logging_search_logs(virtlogd_t)
    )

########################################

## Allow polaris_vman_t to kill process from domain.
##
## <summary>
##      Allow polaris_vman_t to kill process from domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_vman_kill_process',
          gen_require(
            type polaris_vman_t;
          )
    )
```
allow polaris_vman_t $1:process sigkill;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.if
No license file was found, but licenses were detected in source scan.
#
# August 2017, Victor Kamensky
#
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#
## <summary>Polaris tws Policy Rules.</summary>
#
### <summary>Allow the specified domain to manage KGV data files</summary>
### I.e /tmp/package_biv_sums.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_kgv_data_manage',`
  gen_require(`
    type polaris_kgv_data_t;
  `)

manage_files_pattern($1, polaris_kgv_data_t, polaris_kgv_data_t)
  allow $1 polaris_kgv_data_t:file map;
`)

### <summary>Execute a domain transition to run code_sign_verify</summary>
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </param>
#
# interface('polaris_code_verify_domtrans',`
  gen_require(`

type polaris_code_verify_t, polaris_code_verify_exec_t;

')

domtrans_pattern($1, polaris_code_verify_exec_t, polaris_code_verify_t)
')

#######################################################
## <summary>
##      Execute a domain transition to the polaris_hw_upgrade
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_hw_upgrade_domtrans',
    gen_require(
        type polaris_hw_upgrade_t, polaris_hw_upgrade_exec_t;
    ')
)

corecmd_search_bin($1)
    domtrans_pattern($1, polaris_hw_upgrade_exec_t, polaris_hw_upgrade_t)
')

#######################################################
## <summary>
##      Work (read, write, ioctl) with /dev/aikido device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_aikido_dev_use',
    gen_require(
        type device_t;
        type polaris_aikido_device_t;
    ')
)
    write_chr_files_pattern($1, device_t, polaris_aikido_device_t)
    read_chr_files_pattern($1, device_t, polaris_aikido_device_t)
')

#######################################################
## <summary>
##      Execute a domain transition to the polaris_rom_upgrade
## </summary>
## <summary>
## Domain allowed to transition.
## </summary>

```
interface('polaris_rom_upgrade_domtrans',
    gen_require('type polaris_hw_upgrade_t, polaris_rom_upgrade_exec_t;
    ')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_rom_upgrade_exec_t, polaris_rom_upgrade_t)
')
```

## <summary>
## Write into fifo file created during rommon_upgrade
## </summary>

```
interface('polaris_rom_upgrade_use_fifo',
    gen_require('type polaris_rom_upgrade_t;
    ')

    write_fifo_files_pattern($1, polaris_rom_upgrade_t, polaris_rom_upgrade_t)
')
```

## <summary>
## Work (read, write, ioctl) with /dev/scansta device
## </summary>

```
interface('polaris_scansta_dev_use',
    gen_require('type device_t;
type polaris_scansta_device_t;
    ')
```
write_chr_files_pattern($1, device_t, polaris_scansta_device_t)
read_chr_files_pattern($1, device_t, polaris_scansta_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1\0/selinux-tar/selinux/polaristws.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
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#
/tmp/*.chasfs(/.*)? gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis/local/*.chasfs(/.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis(/.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/*.chasasync(/.*)? gen_context(system_u:object_r:polaris_chasync_tmp_t,s0)
/vol/harddisk/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/vol/harddisk/fp_cc_crash(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/var/log/chasync(/.*)? gen_context(system_u:object_r:polaris_chasync_log_t,s0)
/usr/binos/conf/chasync.sh -- gen_context(system_u:object_r:polaris_chasync_exec_t,s0)

# real path is /etc/init\d/chasfs_boottime\sh but we need to add rc\d because
# in file_contexts.subs_dist we have substitute rule for /etc/init\d/
/etc/rc\d/init\d/chasfs_boottime\sh -- gen_context(system_u:object_r:polaris_chasfs_boottime_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1\0/selinux-tar/selinux/polarischasfs.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
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#
/tmp/.CRDU_COMMAND_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSE_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/usr/binos/conf/trans_ports_helper.sh -- gen_context(system_u:object_r:polaris_trans_ports_helper_exec_t,s0)
policy_module(polarissmand, 1.0);

gen_require(`
    type polaris_smand_t;
    type polaris_smand_exec_t;
`)
# allow read of /etc/group
auth_use_nsswitch(polaris_smand_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_smand_t)

# allow objstore access
polaris_disk_objstore_read(polaris_smand_t)

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require(`
type initrc_t;
`)
allow polaris_smand_t initrc_t:sem { read write unix_write associate };

# why smand needs all these capability?
allow polaris_smand_t self:capability { dac_override chown fsetid };
allow polaris_smand_t self:capability2 block_suspend;
allow polaris_smand_t self:capability sys_resource;

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require(`
type initrc_t;
`)
allow polaris_smand_t initrc_t:sem { read write unix_write associate };

# on edison smand wants to read /proc/mtd which is proc_t
# type=AVC msg=audit(1478481219.216:6): avc: denied { read } for pid=5410 comm="smand" name="mtd"
# dev="/proc" ino=402653811 scontext=system_u:system_r:polaris_smand_t:s0
tcontext=system_u:object_r:proc_t:s0 tclass=file
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

# on edison silent roll package is still in iso format
# type=AVC msg=audit(1478497356.229:7): avc: denied { getattr } for pid=5816 comm="smand"
# path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/binos/lib64" dev="loop7"
# ino=3456 scontext=system_u:system_r:polaris_smand_t:s0 tcontext=system_u:object_r:iso9660_t:s0 tclass=dir
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

# on edison silent roll package is still in iso format
# type=AVC msg=audit(1478497356.229:7): avc: denied { getattr } for pid=5816 comm="smand"
# path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/binos/lib64" dev="loop7"
# ino=3456 scontext=system_u:system_r:polaris_smand_t:s0 tcontext=system_u:object_r:iso9660_t:s0 tclass=dir
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

polaris_dynfcfg_tmp_read(polaris_smand_t)

corecmd_exec_shell(polaris_smand_t)

# CLI "Show install issu history" invokes /usr/binos/conf/install_issu_show.py which
# needs /usr/bin/python3(bin file) execution
corecmd_exec_bin(polaris_smand_t)

# smand execute install_show.sh in its own domain need read results
polaris_install_show_tmp_read(polaris_smand_t)
# during boot issu_boottime.sh calls smand to obtain some information

gen_require('  
  type unconfined_service_t;

')

domtrans_pattern(unconfined_service_t, polaris_sm_and执行_t, polaris_sm_and_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# ioctl(fd, SIOCGIFADDR, &ifr); on "system" interface name, which normally
# does not exist in Polaris platforms
kernel_dontaudit_request_load_module(polaris_sm_and_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# statfs64 for /flash directory
fs_getattr_xattr_fs(polaris_sm_and_t)
polaris_disk_bootflash_read_lnk(polaris_sm_and_t)
polaris_disk_bootflash_search(polaris_sm_and_t)

gen_require('  
  type rsync_t;

')

# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_sm_and_t:fifo_file write;

gen_require('  
  type polaris_bshell_t;

')
polaris_chasfs_read(polaris_bshell_t)
polaris_tdlresolve_read(polaris_bshell_t)

# bshell memory logs related

type polaris_memmon_tmp_files_t;
files_tmp_file(polaris_memmon_tmp_files_t)
files_tmp_filetrans(unconfined_service_t, polaris_memmon_tmp_files_t, dir, "memmon_logs")
## give bshell permissions
manage_files_pattern(polaris_bshell_t, polaris_memmon_tmp_files_t, polaris_memmon_tmp_files_t)

# sman needs to access gnmib gnoi images
optional_policy('  
  polaris_gnmib_gnoi_images_read(polaris_sm_and_t)

')

# CLI "Show install issu history" access to "/bootflash/.installer/install_issu_history"
# and "/tmp/show_install_output.txt"
polaris_install_engine_domtrans(polaris_sm_and_t)
polaris_install_show_domtrans(polaris_sm_and_t)

# xcopy_script gets called for xcopy RPC data model
polaris_xcopy_script_domtrans(polaris_smand_t)

#
==================================================================================================
=
# "sh ip ports" CLI policies, execute trans_ports_helper.sh script
polaris_utility_domain_template(trans_ports_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_ports_helper_exec_t, polaris_trans_ports_helper_t)
#binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_ports_helper_t)
# execute "tail" command
corecmd_exec_bin(polaris_trans_ports_helper_t)
corecmd_exec_shell(polaris_trans_ports_helper_t)
polaris_proc_fd_all_getattr(polaris_trans_ports_helper_t)
# getattrib all polaris_domain
domain_getattr_all_domains(polaris_trans_ports_helper_t)
# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_ports_helper_t)
fs_read_nsfs_files(polaris_trans_ports_helper_t)

# ls of options tcp reads /proc/net/ raw
kernel_read_network_state(polaris_trans_ports_helper_t)
# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
allow polaris_trans_ports_helper_t self:capability { sys_ptrace };

# allow file and directory read and execute permission checks
allow polaris_trans_ports_helper_t self:capability dac_read_search;

# map /etc/passwd
auth_use_nsswitch(polaris_trans_ports_helper_t)

type polaris_trans_ports_tmp_t;
files_tmp_file(polaris_trans_ports_tmp_t)
# create /tmp/trans_ports_tmp and /tmp/trans_ports_result
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_tmp")
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_result")
polaris_trans_ports_tmp_manage(polaris_trans_ports_helper_t)
# smand open and unlinks /tmp/trans_ports_tmp
polaris_trans_ports_tmp_manage(polaris_smand_t)
#
==================================================================================================
=
# "show platform software kernel ... " CLI executes trans_stats_helper.sh. Need domain
# transition
#
polaris_utility_domain_template(trans_stats_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_stats_helper_exec_t, polaris_trans_stats_helper_t)
#binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_stats_helper_t)
#execute lsof in helper script
corecmd_exec_bin(polaris_trans_stats_helper_t)
corecmd_exec_shell(polaris_trans_stats_helper_t)
auth_use_nsswitch(polaris_trans_stats_helper_t)
# lsof reads /proc/*/fd/* attributes
polaris_proc_fd_all_getattr(polaris_trans_stats_helper_t)

# lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_stats_helper_t)

# lsof reads /proc/locks
kernel_read_system_state(polaris_trans_stats_helper_t)

# lsof readmnt
fs_read_nsfs_files(polaris_trans_stats_helper_t)

# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
# and dac_read_search as well.
allow polaris_trans_stats_helper_t self:capability { sys_ptrace dac_read_search };

type polaris_trans_stats_tmp_t;
files_tmp_file(polaris_trans_stats_tmp_t)
# create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp")
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp.1")
polaris_trans_stats_tmp_manage(polaris_trans_stats_helper_t)
# smand open and unlinks /tmp/trans_tmp
polaris_trans_stats_tmp_manage(polaris_smand_t)

# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_stats_helper_t)

#
=================================================================================================
==============
# CLI "request platform hardware filesystem harddisk: offline | online" which runs mcp_disk_oir.sh
polaris_utility_domain_template(disk_oir)
polaris_bexecute_domain(polaris_disk_oir_t, polaris_disk_oir_exec_t)

#execute lsof
corecmd_exec_bin(polaris_disk_oir_t)

# This is a CLI script that access types and /proc/pid/fd/*
polaris_proc_fd_all_getattr(polaris_disk_oir_t)
# access sysctl_rpc_t
kernel_read_rpc_sysctls(polaris_disk_oir_t)

# reads /proc/net/*
kernel_read_network_state(polaris_disk_oir_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_disk_oir_t)

# ls/of readmnt
fs_read_nsfs_files(polaris_disk_oir_t)

# inherits stdin/stdout of pty opened by telnetd
telnet_use_ptys(polaris_disk_oir_t)

allow polaris_disk_oir_t self:capability { dac_read_search sys_nice sys_rawio }; allow polaris_disk_oir_t self:process { setfscreate setsched };

# execute lvm commands
lvm_domtrans(polaris_disk_oir_t)

# "ls/of -nP" read /dev/sda1 (/csl_p_0) and other operations when disk is destroyed.
storage_manage_fixed_disk(polaris_disk_oir_t)

# access /tmp/chassis/cpld/chasfs
polaris_chasfs_read(polaris_disk_oir_t)

# cat /tmp/chassis/cpld/chasfs/platform_type'
polaris_cpld_read(polaris_disk_oir_t)

#/bin/rm -rf /tmp/udev/etc/udev/harddisk'
fs_getattr_tmpfs(polaris_disk_oir_t)

# access /tmp/udev/etc/udev/harddisk'
polaris_udev_tmp_manage(polaris_disk_oir_t)

#/bin/mkdir -p /tmp/udev_cache/harddisk
files_tmp_filetrans(polaris_disk_oir_t, polaris_udev_tmp_files_t, dir, "udev_cache")

# systemctl start handle_mount@vol-harddisk.service, communicate with sysemd
systemd_exec_systemctl(polaris_disk_oir_t)

# mount /dev/harddisk1 /vol/harddisk
mount_domtrans(polaris_disk_oir_t)

# read /proc/cmdline
kernel_read_all_proc(polaris_disk_oir_t)
# system service start/stop: /lib/systemd/system/handle_mount@.service
systemd_config_generic_services(polaris_disk_oir_t)

#/sbin/hdparm -S 0 /dev/sdb, execute hdparm in its own domain
fstools_domtrans(polaris_disk_oir_t)

ifdef("crankshaft_family",
    gen_require(
        type device_t;
        type udev_t;
    )
    filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
    filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
    manage_lnk_files_pattern(polaris_disk_oir_t, fixed_disk_device_t, fixed_disk_device_t)
# /dev/harddisk may be labeled with device_t. The "unlink" AVC denial will be fixed when it is labeled correctly

    # allow /bin/dd to access /dev/nvme in blk_file
dev_nvme_blk_files_manage(polaris_disk_oir_t)

    # allow /bin/cat to access /tmp/nim_xxd_present
    gen_require(
        type polaris_cmrp_nim_xxd_tmp_t;
    )
    read_files_pattern(polaris_disk_oir_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)
    )

    #watches of /tmp/rpfpcc/pvp/process_state directory
polaris_process_state_watch(polaris_smand_t)

 ifdef("petra_platform",
    #allow access to polaris_cm_rp sem
polaris_cm_rp_sem_use(polaris_smand_t)
    #allow access to /flash12/moncfg/cfg.dat
polaris_swipedrive_file_manage(polaris_smand_t)
    #allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_smand_t)
    )
dmesg_domtrans(polaris_smand_t)

    Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 10121
found path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.fc
no license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
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#

## <summary>Polaris mobilityd Policy Rules.</summary>

found path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.if
no license file was found, but licenses were detected in source scan.

# September 2018, Anubha Balani
#
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#

policy_module(polarismemory, 1.0);

########################################################################
# Polaris memory: libmaroon and such
########################################################################

attribute polaris_maroon_data_domain;

type polaris_maroon_base_t;
files_type(polaris_maroon_base_t)

typeattribute polaris_maroon_base_t polaris_maroon_data_domain;

gen_require(
    attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_maroon_base_t, dir, "maroon_stats")
type polaris_zram_device_t;
dev_node(polaris_zram_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

# polarisemd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris nif_mgr Policy Rules.</summary>

###########################################################
## <summary>
## Use /tmp/sv directory and files. Currently this acts as a
## chasfs root for information shared between the nif manager
## and the fed.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sv_tmp_use',
  gen_require(`
    type polaris_sv_tmp_t;
    type tmp_t;
  `)
)
manage_dirs_pattern($1, tmp_t, polaris_sv_tmp_t)
manage_files_pattern($1, polaris_sv_tmp_t, polaris_sv_tmp_t)
allow $1 polaris_sv_tmp_t:dir watch;
')

##########################################################################
## <summary>
## This is to allow creation and write to
## doppler_sesa file under proc
##
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_proc_sesa_create_write',
    gen_require('type polaris_proc_sesa_t;
')

setattr_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
rw_files_pattern($1,  polaris_proc_sesa_t, polaris_proc_sesa_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/binos/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/binos/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)
/usr/binos/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)
/usr/binos/bin/create_luid_file_db -- gen_context(system_u:object_r:polaris_create_ldb_exec_t,s0)
/tmp/btrace_luids_file.cdb.tmp -- gen_context(system_u:object_r:polaris_lldb_dump_t,s0)
/tmp/btrace_luids_file.cdb -- gen_context(system_u:object_r:polaris_lldb_dump_t,s0)
/tmp/cc/0/trace(/.*)? -- gen_context(system_u:object_r:polaris_trace_base_t,s0)
/tmp/cc/0/trace/fifo(/.*)? -- gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  10125

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.fc
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
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#

# polarisunconfined file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisdbgd, 1.0);

gen_require('    type polaris_dbgdt;
')
polaris_chasfs_read(polaris_dbgdt)
polaris_ldlresolve_read(polaris_dbgdt)
polaris_cpld_read(polaris_dbgdt)
logging_send_syslog_msg(polaris_dbgdt)

# vconfd_load_shared_schemas
polaris_confshared_schema_read(polaris_dbgdt)
#!/var/run/dbgd socket and pid

type polaris_dbgd_var_run_t;

files_pid_file(polaris_dbgd_var_run_t)

manage_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)

manage_sock_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)

files_pid_filetrans(polaris_dbgd_t, polaris_dbgd_var_run_t, { file sock_file })

polaris_vdaemon_var_sock_write(polaris_dbgd_t)

# dbgd may create vrf-based netns on demand

polaris_vrf_netns_manage(polaris_dbgd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.te

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#
# March 2020, Victor Kamensky
#
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#

## <summary>Polaris JVM Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.if

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#
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.te
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.te

No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
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#

policy_module(polarisezmancc, 1.0);

gen_require(''
    type polaris_ezman_cc_t;
')
polaris_chasfs_read(polaris_ezman_cc_t)
polaris_cpld_read(polaris_ezman_cc_t)
polaris_tdlresolve_read(polaris_ezman_cc_t)

polaris_ripc_sman_ui_serv_connect(polaris_ezman_cc_t)

allow polaris_ezman_cc_t self:capability dac_override;

polaris_oob_evfc_dev_use(polaris_ezman_cc_t)
# LOOK AT ME by some reason relabeling of /dev/ezlkm
# device files does not work
dev_rw_generic_chr_files(polaris_ezman_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.te
No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
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#

policy_module(polarisdoppler, 1.0);

# doppler interrupt device
type polaris_dplr_device_t;
dev_node(polaris_dplr_device_t)

# dma mmap device
type polaris_dmammap_device_t;
dev_node(polaris_dmammap_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.te
No license file was found, but licenses were detected in source scan.

#
# Nov 2020, Swati Kumari
#
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#

## <summary>Polaris PTPD Policy Rules.</summary>
### <summary>
### Work (read, write, ioctl) with /dev/blzi_fpga
### </summary>

### <summary>
### Domain allowed access.
### </summary>

```c
interface(`polaris_blzi_dev_use`,
    gen_require(`
        type device_t;
        type polaris_blzi_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    read_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    allow $1 polaris_blzi_device_t:chr_file map;
`)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris cpp_cp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

```c
policy_module(polariscppdriver, 1.0);

gen_require(`
    type polaris_cpp_driver_t;
```

polaris_btrace_data_manage(polaris_cpp_driver_t)
polaris_crft_data_manage(polaris_cpp_driver_t)
polaris_chasfs_manage(polaris_cpp_driver_t)
polaris_tdlresolve_read(polaris_cpp_driver_t)
polaris_tdldb_list_dirs(polaris_cpp_driver_t)
polaris_cpld_read(polaris_cpp_driver_t)
polaris_flashlib_read(polaris_cpp_driver_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_driver_t)

polaris_cpp_process(polaris_cpp_driver_t)
polaris_cpp_dev_use(polaris_cpp_driver_t)

# allow read variety of system information from sysfs
# type=AVC msg=audit(1479601620.503:19): avc: denied { open } for pid=22839 comm="cpp_driver"
path="/sys/devices/system/node/node0/meminfo" dev="sysfs" ino=805
scontext=system_u:system_r:polaris_cpp_driver_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_read_sysfs(polaris_cpp_driver_t)

optional_policy(
# cpp_driver reads qfp executable to look at .stabs sections that
# contains qfp code fixups, then this fixup data is passed to kernel
# module to modify qfp code.
gen_require(
  type bin_t;
  type polaris_qfp_exec_t;
)
read_files_pattern(polaris_cpp_driver_t, bin_t, polaris_qfp_exec_t)
)

polaris_icc_broken_relocations(polaris_cpp_driver_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cpp_driver_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_driver_t)

logging_send_syslog_msg(polaris_cpp_driver_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_driver_t)
')

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of cpp_driver access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
ifdef(`crankshaft_family,'
  polaris_cm_fp_tmp_filetrans(polaris_cpp_driver_t)
polaris_cm_fp_tmp_manage(polaris_cpp_driver_t)
')

# LOOK AT ME on overloard cpp_driver needs access to /dev/cavium_e
# and /dev/pcie0 devices, on 1ng cpp_driver needs access to
# /dev/yoda0_tree2, etc
dev_rw_generic_chr_files(polaris_cpp_driver_t)

# /dev/cpp_il on qwlc
optional_policy(
  polaris_cpp_il_dev_use(polaris_cpp_driver_t)
')

ifdef(`qwlc_platform,'
  polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef(`katar_platform,'
  polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef(`mcp_family,'
  polaris_cpld_dev_use(polaris_cpp_driver_t)
')

optional_policy(
  polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
polaris_cbdma_dev_use(polaris_cpp_driver_t)
polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
')

Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#
## <summary>Polaris odm_proxy Policy Rules.</summary>
policy_module(polarisbtrace, 1,0);

 gen_require(
  attribute domain;
  attribute polaris_extended_domain;
  attribute unconfined_domain_type;
')

# persistent btrace files stored under btrace_data
type polaris_btrace_data_t;
files_type(polaris_btrace_data_t)

# allow btrace data file reside on persistent storage
polaris_pfile_type(polaris_btrace_data_t)

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
files_tmp_filetrans(polaris_extended_domain, polaris_btrace_base_t, dir, "trace")

# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh -> btrace.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")
gen_require(
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
)

filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_btrace_base_t, dir, "trace")

# filetrans_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_fifo_stdout_base_t, polaris fifo_stdout_t, fifo_file)
manage_dirs_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t)

polaris_utility_domain_template(btdecode)

# any polaris process except iosd can execve btdecode utility to decode its own traces
gen_require(
    attribute polaris_domain;
    type polaris_iosd_t;
)
domtrans_pattern(polaris_domain - polaris_iosd_t, polaris_btdecode_exec_t, polaris_btdecode_t)
corecmd_check_exec_shell(polaris_domain - polaris_iosd_t)

# btdecode not only reads btrace files, but also creates copy of the file
polaris_btrace_data_manage_all(polaris_btdecode_t)
polaris_btrace_persistent_data_manage(polaris_btdecode_t)
polaris_use_btrace_fifo(polaris_btdecode_t)
polaris_tdlresolve_read(polaris_btdecode_t)
polaris_boot_tmp_read(polaris_btdecode_t)
polaris_lua_read(polaris_btdecode_t)
polaris_chasfs_read(polaris_btdecode_t)
polaris_cpld_read(polaris_btdecode_t)
polaris_bootflash_manage(polaris_btdecode_t)

# lua files need to read executables to retrieve btrace meta informations
files_mmap_all_files(polaris_btdecode_t)

# could be called on trace files on persistent storage
polaris_persistent_read(polaris_btdecode_t)

# need to read executables to retrieve btrace meta informations
polaris_read_exec_domain(polaris_btdecode_t)
corecmd_exec_bin(polaris_btdecode_t)
corecmd_exec_shell(polaris_btdecode_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btdecode_t)

# executes luajit
allow polaris_btdecode_t self:process execmem;

# tmp files created by /lua/btdecode.lua in /tmp
type polaris_btdecode_tmp_t;
files_tmp_file(polaris_btdecode_tmp_t)
files_tmp_filetrans(polaris_btdecode_t, polaris_btdecode_tmp_t, file)
manage_files_pattern(polaris_btdecode_t, polaris_btdecode_tmp_t, polaris_btdecode_tmp_t)

#/lua/btdecode.lua may call create_luid_file_db on demand
polaris_create_ldb_domtrans(polaris_btdecode_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or ”monitor log profile”
# command
telnet_use_ptys(polaris_btdecode_t)

# Allow btdecode to read/write /dev/pts/*
term_use_generic_ptys(polaris_btdecode_t)

polaris_btrace_ldb_tmp_read(polaris_btdecode_t)

# Allow btdecode to watch over /bootflash/tracelogs, /vol/harddisk/tarcelogs and /flash2/CRASH/tracelogs
polaris_btrace_data_watch(polaris_btdecode_t)

# Allow btdecode to watch over /usr/binos/conf
files_watch_usr_dirs(polaris_btdecode_t)

# Allow btdecode to access UFS mounted directories for other members
optional_policy('polaris_ncd_tmp_read(polaris_btdecode_t)
')

# btrace_rotate calls ftw function through create_luid_file_db utility
# that walks whole file tree in order to create btrace_luids_file.cdb
# let's have separate domain for this utility
polaris_utility_domain_template(create_ldb)

files_read_all_files(polaris_create_ldb_t)
files_getattr_all_dirs(polaris_create_ldb_t)
files_read_all_symlinks(polaris_create_ldb_t)
files_list_non_security(polaris_create_ldb_t)
files_dontaudit_list_security_dirs(polaris_create_ldb_t)
files_mmap_all_files(polaris_create_ldb_t)

# allow luid database scripts to read/write /dev/pts/*
term_use_generic_ptys(polaris_create ldb_t)

d # creates files like btrace_luids_file.cdb_20170907160108.tmp, btrace_luids_file.cdb
type polaris ldb tmp_t;
files tmp file(polaris ldb tmp_t)
files tmp filetrans(polaris create ldb_t, polaris ldb tmp_t, file)
files tmp filetrans(polaris btdecode_t, polaris ldb tmp_t, file)
manage files pattern(polaris create ldb_t, polaris ldb tmp_t, polaris ldb tmp_t)
mmap files pattern(polaris create ldb_t, polaris create ldb_t, polaris create ldb_t)
polaris use btrace fifo(polaris create ldb_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet use pty(polaris create ldb_t)

# Allowing permission to read/open/getattr/ on
# /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen require(
    type telnetd_exec_t;
)
allow polaris btdecode_t telnetd_exec_t:file { getattr open read };

########################################################################
# CLI: show platform software trace filter-binary wired
# invokes.../bin/sh /usr/binos/conf/mcp_trace_filter.sh --binary wired
########################################################################
polaris utility domain template(trace filter)
polaris bexecute domtrans(polaris trace filter t)
polaris bexecute domain(polaris trace filter t, polaris trace filter exec t)
# mcp_trace_filter.sh runs with telnet /dev/ptyN as
# stdin/stdout if on standby
telnet use pty(polaris trace filter t)

# script starts rsync with mcp_chvrf.sh
polaris chvrf domtrans(polaris trace filter t)

allow polaris trace filter t self:capability { dac_override sys_resource };

# access /tmp/sw/boot/pkginfo
# awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris boot tmp read(polaris trace filter t)

polaris chasfs read(polaris trace filter t)
polaris disk bootflash read link(polaris trace filter t)
polaris disk crashinfo getattr(polaris trace filter t)
```c
polaris_bootflash_manage(polaris_trace_filter_t)
polaris_use_btman_fifo(polaris_trace_filter_t)
polaris_use_btrace_fifo(polaris_trace_filter_t)
polaris_smand_use_fifo(polaris_trace_filter_t)
polaris_cpld_read(polaris_trace_filter_t)
polaris_tlddb_listDirs(polaris_trace_filter_t)
polaris_disk_harbeddisk_read_Lnk(polaris_trace_filter_t)
kernl_read_system_state(polaris_trace_filter_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_filter_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access UFS mounted directories for other members
optional_policy(`
polaris_ncd_tmp_read(polaris_trace_filter_t)
`)

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_trace_filter_tmp_t;
files_tmp_file(polaris_trace_filter_tmp_t)
files_tmp_filetrans(polaris_trace_filter_t, polaris_trace_filter_tmp_t, file)
manage_files_pattern(polaris_trace_filter_t, polaris_trace_filter_tmp_t, polaris_trace_filter_tmp_t)

# mcp_trace_filter.sh invokes: "df /tmp/tdldb" and "df /dev/shm"
fs_getattr_tmpfs(polaris_trace_filter_t)

# allow accesses to polaris lua files
polaris_lua_read(polaris_trace_filter_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_filter_t)

corecmd_exec_bin(polaris_trace_filter_t)

# why does btrace show command needs to write into btrace state?
polaris_btrace_data_manage_all(polaris_trace_filter_t)
polaris_btrace_persistent_data_manage(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/harbeddisk/10.130.1.0
fs_getattr_nfs(polaris_trace_filter_t)

******************************************************************************
# CLI: monitor log profile <iwan | wireless | wired ..>
```
# invokes /bin/sh /usr/bin/conf/mcp_trace_request.sh --operation monitor

polaris_utility_domain_template(trace_request)

polaris_bexecute_domtrans(polaris_trace_request_t)
polaris_bexecute_domain(polaris_trace_request_t, polaris_trace_request_exec_t)

# Provide sys_resource capability for sys_pipe calls
allow polaris_trace_request_t self:capability sys_resource;

polaris_cpld_read(polaris_trace_request_t)
polaris_disk_crashinfo_getattr(polaris_trace_request_t)
polaris_disk_bootflash_read_link(polaris_trace_request_t)
polaris_diskハードisk_read_link(polaris_trace_request_t)
polaris_chasfs_manage(polaris_trace_request_t)

fs_getattr_xattr_fs(polaris_trace_request_t)

# can execute hostname
hostname_exec(polaris_trace_request_t)

# can execute dmesg
dmesg_domtrans(polaris_trace_request_t)

# creates archives under /crashinfo
polaris_disk_crashinfo_manage(polaris_trace_request_t)

# can tar logs to persistent all file systems (including removable file systems)
polaris_persistent_manage(polaris_trace_request_t)
polaris removable_manage(polaris_trace_request_t)

# read and write all btrace fifo file as standard input/output.
polaris_use_btrace_fifo(polaris_trace_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_request_t)

# copies /tmp/silent_roll select.log into /crashinfo so that it can be tar'd into an
# archive
polaris_pvp_read_tmp_files(polaris_trace_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_trace_request_t)

# in some cases mcp_trace_request.sh runs with telnet /dev/ptyN as
# stdin/stdout
telnet_use_ptys(polaris_trace_request_t)
# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_request_t)

# read /proc/cmdline
kernel_read_system_state(polaris_trace_request_t)

corecmd_exec_bin(polaris_trace_request_t)

ifdef("ngwc_family;"
optional_policy(
  polaris_ncd_tmp_read(polaris_trace_request_t)
')
')

# mcp_trace_request.sh can read all btrace files both in temp storage
# as well as in persistent storage
polaris_btrace_data_manage_all(polaris_trace_request_t)
polaris_btrace_persistent_data_manage(polaris_trace_request_t)

# Allow mcp_trace_request.sh to create and manage temporary files under /tmp
# such as /tmp/mtr_cntrl
 type polaris_trace_request_tmp_t;
 files_tmp_file(polaris_trace_request_tmp_t)
 files_tmp_filetrans(polaris_trace_request_t, polaris_trace_request_tmp_t, file)
 manage_files_pattern(polaris_trace_request_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs_getattr_nfs(polaris_trace_request_t)

# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store
gen_require(
  type dmesg_t;
  )
polaris_btrace_persistent_data_manage(dmesg_t)
# dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label
gen_require(
  type udev_t;
  type polaris_udev_tmp_files_t;
  type init_t;
  )
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_forum(polaris_trace_request_t)

# Allow Is /tmp/ufs/hardisk
optional_policy(
    polaris_nct_draft_read(polaris_trace_request_t)
)

# Allow mcp_trace_request to get tmpfs attributes
fs_getattr TMPFS(polaris_trace_request_t)

# Allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };

*******************************************************************************
type polaris_btrace_tmpfs_t;
files_tmpfs_file(polaris_btrace_tmpfs_t)

# btrace semaphore created by systemd-tmpfiles needs map permission
gen_require(
    type systemd_tmpfiles_t;
)
mmmap_files_pattern(systemd_tmpfiles_t, polaris_btrace_tmpfs_t, polaris_btrace_tmpfs_t)

# Allow polaris processes to manage level config files in tracelogs persistent
# directory like /bootflash/tracelogs/level_config
type polaris_btrace_lvl_config_t;
files_type(polaris_btrace_lvl_config_t)
gen_require(
    attribute polaris_domain;
)
polaris_btrace_lvl_config_forum(polaris_domain)

optional_policy(
    polaris_cedge_tanman_tmp_forum(polaris_btdecode_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.te
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
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# All rights reserved
#
/usr/bin/os/conf/psvp.sh -- gen_context(system_u:object_r:polaris_psvp_exec_t,s0)
/tmp/rp/psvp -d gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/inot_fifo -p gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/pvp.pid -- gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarispsvp.fc
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#
policy_module(polarisbexecute, 1.0);

polaris_utility_domain_template(bexecute)
polaris_utility_domain_template(chvrf)
polaris_bexecute_domtrans(polaris_chvrf_t)
polaris_chvrf_domtrans(polaris_bexecute_t)
polaris_ngio_module_session_domtrans(polaris_bexecute_t)
polaris_rom_upgrade_use_fifo(polaris_chvrf_t)

# polarsibsexecute allows access to a user-level script that has:
# allow read of /etc/passwd
auth_use_nsswitch(polaris_bexecute_t)
dev_setattr_null_dev(polaris_bexecute_t)
polaris_btrace_data_manage(polaris_bexecute_t)
polaris_crft_data_manage(polaris_bexecute_t)
polaris_chasfs_manage(polaris_bexecute_t)
polaris_cpld_read(polaris_bexecute_t)
polaris_boot_tmp_read(polaris_bexecute_t)
polaris_mronbifo_tmp_read(polaris_bexecute_t)
polaris_proc_mronbifo_read(polaris_bexecute_t)
polaris_dynfg_tmp_read(polaris_bexecute_t)
polaris_read_debug_conf(polaris_bexecute_t)
polaris_tdldb_list_dirs(polaris_bexecute_t)
polaris_disk_bootflash_read_lnk(polaris_bexecute_t)
polaris_disk_harddisk_read_lnk(polaris_bexecute_t)

# open/read /tmp/sw/rp/max_elastic_bays
polaris_pvp_read_tmp_files(polaris_bexecute_t)

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_bexecute_t)

# manage files in /tmp/pman_ports
polaris_pman_manage_tmp_files(polaris_bexecute_t)

# brelay.sh does rm -rf of "/tmp/pman_ports/gdbport/9910"
# This checks tmpfs file system attributes
#
# Denial is observed after "show platform software audit summary"
# which uses brelay to trigger corresponding audit_log.sh script
fs_getattr_tmpfs(polaris_bexecute_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_bexecute_t)

# follow /tftp/inv symlink to /tmp/chassis/local/rp/chasfs/inventory
gen_require(
    type tftpdir_rw_t;
)
read_link_files_pattern(polaris_bexecute_t, tftpdir_rw_t, tftpdir_rw_t)

# tries to do mkdir -p /tmp/rp/lipc, but it should exist already so
# getattr should be sufficient
polaris_lipc_getattr(polaris_bexecute_t)

# read /proc/cmdline
kernel_read_system_state(polaris_bexecute_t)

# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_bexecute_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_bexecute_t)
allow polaris_bexecute_t self:capability { chown setgid setuidfowner net_admin};
allow polaris_bexecute_t self:process { setgid setcap};

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
# type polaris_bexecute_tmp_t;
files_tmp_file(polaris_bexecute_tmp_t)
files_tmp_filetrans(polaris_bexecute_t, polaris_bexecute_tmp_t, file)
manage_files_pattern(polaris_bexecute_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# smand calls many commands through bexec.sh
polaris_smand_domain(polaris_bexecute_t, polaris_bexecute_exec_t)

# hman invokes cpp_shm_mgr_info_show.sh which in turn invokes "mktemp -p /tmp/tmppub..."
polaris_btrace_tmppub_manage(polaris_bexecute_t)

ifdef(`nyquist_platform,'
  term_use_unallocated_ttys(polaris_bexecute_t)
  term_setattr_unallocated_ttys(polaris_bexecute_t)
')

ifdef(`radium_platform,'
polaris_load_usbnet_domtrans(polaris_bexecute_t)

# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
#   /usr/binos/conf/bexecute.sh -c /usr/binos/conf/module_direct.py
#   0 bp0 PROMETHIUM-L"
gen_require(
    type polaris_cm_rp_t;
')
allow polaris_chvrf_t polaris_cm_rp_t:tcp_socket ioctl;

# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
#   /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
#   /usr/binos/conf/execute_co"
gen_require(
    type polaris_dmi_ncsshd_fwd_t;
')
allow polaris_chvrf_t polaris_dmi_ncsshd_fwd_t:tcp_socket ioctl;

ifdef(`sumatra_platform,'
polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

ifdef(`nanook_platform,'
polaris_load_usbnet_domtrans(polaris_bexecute_t)
')
ifdef(`supernova_platform',
  polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

polaris_issu_tmp_files_manage(polaris_bexecute_t)

# Unlike other platforms, quake platform has runin_exec_proc.sh script,
# which is started by xinetd in inetd_t domain,
# and needs to switch to bexecute domain.
# In turn, runin_exec_proc.sh then starts in.telnetd process which needs
# to run in telnetd_t domain, for the existing policies to do the rest.
ifdef(`quake_platform',
  gen_require(
    type inetd_t;
    type telnetd_t;
    type telnetd_exec_t;
  )
  polaris_bexecute_domtrans(inetd_t)
  polaris_bexecute_domain(telnetd_t, telnetd_exec_t)
')

#############################################################################
# chvrf
#############################################################################
corecmd_exec_bin(polaris_chvrf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_chvrf_t)

# read polaris vrf net namespace file(s) /var/run/netns/0
fs_read_nsfs_files(polaris_chvrf_t)

# write into pipe that various binos processes created for us with popen
polaris_smand_use_fifo(polaris_chvrf_t)
polaris_hman_use_fifo(polaris_chvrf_t)
polaris_dmiauthd_use_fifo(polaris_chvrf_t)
optional_policy(
  polaris_cmrp_use_fifo(polaris_chvrf_t)
')
optional_policy(
  polaris_dmi_ncsshdfwd_use_fifo(polaris_chvrf_t)
')

# mcp_chvrf.sh may run into files created by bexecute
manage_files_pattern(polaris_chvrf_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)
# init may transition to polaris_chvrf_t - certain systemd units use
# mcp_chvrf.sh to start services
gen_require('type init_t;')
polaris_chvrf_domtrans(init_t)

# mcp_chvrf.sh used to start xinetd services
gen_require('type inetd_t;
    type inetd_exec_t;')
domtrans_pattern(polaris_chvrf_t, inetd_exec_t, inetd_t)

# in some cases mcp_chvrf needs to write into someone fifo stdout
# file, i.e when called from ncd.sh script
polaris_use_btrace_fifo(polaris_chvrf_t)
sysnet_domtrans_ifconfig(polaris_chvrf_t)

# during some execve calls chvrf needs list /tmp/etc
polaris_etc_list(polaris_chvrf_t)

ifdef(`ngwc_family',`
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp/manage(polaris_chvrf_t)
polaris_autoupgrade_tmp/manage(polaris_bexecute_t)
')

ifdef(`mcp_family',`
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp/manage(polaris_chvrf_t)
polaris_autoupgrade_tmp/manage(polaris_bexecute_t)
')

ifdef(`wlc_family',`
    # /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
    # also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
    polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp/manage(polaris_chvrf_t)
polaris_autoupgrade_tmp/manage(polaris_bexecute_t)
')

# For "request platform software system shell" CLI, we have:
# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/binos/conf/bexecute.sh
#         -c /usr/binos/conf/mcp_record_shell.sh
# mcp_chvrf.sh needs read/write access to /dev/pts/1:
# allow polaris_chvrf_t telnetd_devpts_t:chr_file { read write };
telnet_use_ptys(polaris_chvrf_t)

ifdef(`nyquist_platform',`
term_use_unallocated_ttys(polaris_chvrf_t)
')

# some times run with unix_stream_socket as stdin
init_ioctl_stream_sockets(polaris_chvrf_t)

# bexecute and mcp_chvrf.sh called from install_show.sh
polaris_install_show_tmp_write(polaris_bexecute_t)
polaris_install_show_tmp_write(polaris_chvrf_t)

# install_engine.sh uses brelay to re-launch install_engine in all FRUs.
# So, op_rp_switch_to_remote_loc_in_parallel() outputs to install tmp log file;
# check invocation-point for comms_run_on_remote_fru.
polaris_install_tmp_log_write(polaris_bexecute_t)
polaris_install_tmp_log_write(polaris_chvrf_t)

# CLI: show platform hardware cpp active infrastructure shared-memory all
# this results in hman invoking following chain of shell scrips.
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/bash /usr/binos/conf/bexecute.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/sh /usr/binos/conf/cpp_shm_mgr_info_show.sh
# /bin/bash /usr/binos/conf/bshell.sh -S -c "show platform hardware qfp active \
#    infrastructure shared-memory process cpp-control-process"
# All these are executed in polaris_bexecute_t domain and write access to following lipc
# is needed: /tmp/rp/lipc/shell_mgr_bshell_serv_socket
polaris_sman_bshell_serv_lipc_write(polaris_bexecute_t)
polaris_idlresolve_read(polaris_bexecute_t)

# This block is policies for "sh pla so process memory r0 name iosd maps" CLI
polaris_utility_domain_template(process_maps)
polaris_bexecute_domain(polaris_process_maps_t, polaris_process_maps_exec_t)
# needs to read maps files.
domain_read_all_domains_state(polaris_process_maps_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_process_maps_t)
kernel_read_system_state(polaris_process_maps_t)

# need write/ioclt/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_process_maps_t)

corecmd_exec_bin(polaris_process_maps_t)

###############################################################################
# This block is policies for "request platform software system shell" CLI.
# Eventually, mcp_record_shell.sh is invoked. That needs its own domain.

polaris_utility_domain_template(platform_shell)

polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)
corecmd_exec_bin(polaris_platform_shell_t)
auth_use_nsswitch(polaris_platform_shell_t)

polaris_btrace_persistent_data_manage(polaris_platform_shell_t)
polaris_cpld_read(polaris_platform_shell_t)

# cyan libraries access /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_platform_shell_t)

# pglobals.sh accesses /tmp/ufs//crashinfo on cat9k platforms
optional_policy(`
polaris_ncd_tmp_read(polaris_platform_shell_t)
`)

# mcp_record_shell.sh needs read access to chasfs
polaris_chasfs_read(polaris_platform_shell_t)

# mcp_record_shell.sh needs read access to /dev/pts/0 (telnetd_devpts_t)
telnet_use_ptys(polaris_platform_shell_t)

# rsync /tmp/system_shell_access_logs/$system_shell_access_log_file
# rsync://rp0-0/chasfs/etc/system_shell_access_logs/.
gen_require(`
    type rsync_t;
`)
rsync_entry_domtrans(polaris_platform_shell_t, rsync_t)
allow rsync_t polaris_platform_shell_t:process sigchld;
telnet_use_ptys(rsync_t)
logging_send_syslog_msg(polaris_platform_shell_t)
init_list_pid_dirs(polaris_platform_shell_t)

# when reload command is issued, needs "kill" capability
allow polaris_platform_shell_t self:capability kill;

# brelay started from telnetd as result it inherits stdin/stdout of pty opened
# by telnetd
telnet_use_ptys(polaris_bexecute_t)
gen_require('type telnetd_devpts_t;')
allow polaris_bexecute_t telnetd_devpts_t:chr_file setattr_chr_file_perms;
allow polaris_bexecute_t self:capability fsetid;

# mcp_record_shell.sh invokes:
# /usr/bin/script -q /harddisk/tracelogs/system_shell_R0*
# - needs access to /root/.bash_history
# - performs chmod on /dev/pts/2 (needs fsetid on self)
# - ioctl/open/read/write on /dev/ptmx
# - needs read/search access to /harddisk/tracelogs
type polaris_bash_tmp_t;
files_type(polaris_bash_tmp_t)
filetrans_pattern(domain, user_home_dir_t, polaris_bash_tmp_t, file, ".bash_history")
polaris_bash_tmp_manage(polaris_platform_shell_t)
allow polaris_platform_shell_t self:capability fsetid;
term_use_generic_ptys(polaris_platform_shell_t)
term_setattr_generic_ptys(polaris_platform_shell_t)
term_getattr_pty_fs(polaris_platform_shell_t)
term_use_ptmx(polaris_platform_shell_t)
polaris_disk_bootflash_read_lnk(polaris_platform_shell_t)
polaris_disk_harddisk_read_lnk(polaris_platform_shell_t)

# mcp_record_shell.sh invokes:
# mkdir /tmp/system_shell_access_logs
# create /tmp/system_shell_access_logs/SHELL_ACCESSED_ *
type polaris_platform_shell_tmp_t;
files_tmp_file(polaris_platform_shell_tmp_t)
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
files_tmp_filetrans(polaris_platformShell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")

# read /proc/cmdline
kernel_read_system_state(polaris_platform_shell_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_platform_shell_t)
polaris_disk_crashinfo_getattr(polaris_platform_shell_t)

polaris_utility_domain_template(shell)

term_use_generic_ptys(polaris_shell_t)

domtrans_pattern(polaris_platform_shell_t, polaris_shell_exec_t, polaris_shell_t)

# reload command needs the following policies to send signal
polaris_send_signal_to_bexecute(polaris_platform_shell_t)
polaris_send_signal_to_shell(polaris_platform_shell_t)

### <desc>
### <p>
### Polaris "request platform system shell" drops into unconfined shell
### </p>
### </desc>

gen_tunable(polaris_dev_shell, true)

tunable_policy(`polaris_dev_shell',
    polaris_unconfined_domain(polaris_shell_t)
')
polaris_domain_storage_unconfined_type(polaris_shell_t)

# PLEASE LOOK AT ME do we have to many ports open
# btelnet runs under bexecute in case of guest shell console access
# command like app-hosting connect appid guestshell console
allow polaris_bexecute_t self:tcp_socket { connect create setopt };
corennet_tcp_connect_unreserved_ports(polaris_bexecute_t)
sysnet_read_config(polaris_bexecute_t)

# brelay.sh does ls /tmp/ufs//crashinfo on cat9k
allow polaris_bexecute_t self:capability dac_override;
polaris_disk_crashinfo_getattr(polaris_bexecute_t)
optional_policy(`
polaris_ncd_tmp_read(polaris_bexecute_t)
')

polaris_utility_domain_template(bconsole)

polaris_boot_tmp_read(polaris_bconsole_t)
polaris_btrace_data_manage(polaris_bconsole_t)
polaris_chasfs_read(polaris_bconsole_t)
polaris_cpld_read(polaris_bconsole_t)
polaris_proc_rmonbifo_read(polaris_bconsole_t)
polaris_rmonbifo_tmp_read(polaris_bconsole_t)
polaris_use_btrace_fifo(polaris_bconsole_t)
polaris_show_provision_temp_read(polaris_bconsole_t)

corecmd_exec_bin(polaris_bconsole_t)
polaris_bexecute_domtrans(polaris_bconsole_t)

allow polaris_bconsole_t self:process setrlimit;

# handling /var/run/agetty-iosd.pid
type polaris_bconsole_var_run_t;
files_pid_file(polaris_bconsole_var_run_t)
manage_files_pattern(polaris_bconsole_t, polaris_bconsole_var_run_t, polaris_bconsole_var_run_t)
files_pid_filetrans(polaris_bconsole_t, polaris_bconsole_var_run_t, file, "agetty-iosd.pid")

# access /dev/ttyS0
term_use_unallocated_ttys(polaris_bconsole_t)

auth_use_nsswitch(polaris_bconsole_t)

# This block is policies for
# "request platform software console attach switch standby RO" CLI.
# It invokes usr/binos/conf/mcp_console_attach.sh, eventually invoking
# ioucon binary, to telnet to standby.
polaris_utility_domain_template(mcp_console_attach)
polaris_bexecute_domain(polaris_mcp_console_attach_t, polaris_mcp_console_attach_exec_t)
corecmd_exec_bin(polaris_mcp_console_attach_t)
polaris_bexecute_domtrans(polaris_mcp_console_attach_t)
allow polaris_mcp_console_attach_t self:process setpgid;
polaris_chasfs_read(polaris_mcp_console_attach_t)
telnet_use_ptys(polaris_mcp_console_attach_t)

# working with ioucon binary, invoked by usr/binos/conf/mcp_console_attach.sh
polaris_utility_domain_template(ioucon)
polaris_bexecute_domain(polaris_ioucon_t, polaris_ioucon_exec_t)

allow polaris_ioucon_t self:unix_dgram_socket create_socket_perms;
polaris_iost_dgram_send(polaris_ioucon_t)
polaris_iostd_tmp_file_use(polaris_ioucon_t)
telnet_use_ptys(polaris_ioucon_t)

# "test platform hardware eobc ping" invokes eobc_ping.sh
# send sigchld when it is done
gen_require(
  type ping_t;
')
allow ping_t polaris_bexecute_t:process sigchld;
polaris_confdomtrans(polaris_bexecute_t)

# app-hosting connect appid <> console/session
# Beluga/Meraki container
ifdef(`ms_platform',`
polaris_iox_container_domtrans(polaris_bexecute_t)
')

# Bottlenose/Meraki container
ifdef(`bottlenose_platform',`
polaris_iox_container_domtrans(polaris_bexecute_t)
')

# IOx downloads the application package using network protocol (e.g http)
gen_require(`
    type fifo_var_run_t;
')
allow polaris_bexecute_t fifo_var_run_t:fifo_file read;

# on vxe platforms with MBRv2/MBRv4/GPTv1/GPTv3 partition layouts
# /config is file system and export_mcp_environment tries to create it anyway
polaris_getattr_disk_config(polaris_bexecute_t)

###########################################################################
# This block is policies for
# "hw-module session <x/y>" CLI.
# It invokes usr/binos/conf/ngio_module_session.sh, eventually invoking
# open64.

polaris_utility_domain_template(ngio_module_session)
polaris_bexecute_domain(ngio_module_session_t, polaris_ngio_module_session_exec_t)
corecmd_exec_bin(polaris_ngio_module_session_t)
polaris_bexecute_domtrans(ngio_module_session_t)
term_use_unallocated_ttys(ngio_module_session_t)
dev_read_sysfs(ngio_module_session_t)
allow polaris_ngio_module_session_t self:process setsched;
auth_map_passwd(ngio_module_session_t)
polaris_chasfs_read(ngio_module_session_t)
polaris_cpld_read(ngio_module_session_t)
telnet_use_ptys(ngio_module_session_t)

# work with /tmp files
type polaris_ngio_module_session_tmp_t;
files_tmp_file(polaris_ngio_module_session_tmp_t)
manage_dirspattern(polaris_ngio_module_session_t, tmp_t, polaris_ngio_module_session_tmp_t)
manage_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, polaris_ngio_module_session_tmp_t)
manage_fifo_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, polaris_ngio_module_session_tmp_t)
files_tmp_filetrans(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, { file dir })

# CLI: show platform software tech-support
# requires bshell execution
#/bin/bash /usr/binos/conf/bshell.sh -S -P ---- __CMD__ ---- -f
/usr/binos/conf/mcp_tech_support_command_file.txt
gen_require(’
    type polaris_bshell_t;
    type polaris_bshell_exec_t;
’)
domtrans_pattern(polaris_bexecute_t, polaris_bshell_exec_t, polaris_bshell_t)
# scripts stdin is set by hman and needs write/append access to pipes like pipe:[80159]
polaris_hman_use_fifo(polaris_bshell_t)
# in case of ISR4k show tech input for bshell dynamically created
polaris_tech_support_tmp_read(polaris_bshell_t)

# CLI: show software authenticity running
# this results in hman invoking below command:
#/bin/sh /usr/binos/conf/bexec.sh -c "/usr/bin/code_sign_verify show3 abcd "
polaris_code_verify_domtrans(polaris_bexecute_t)

# stdin is inherited when bexecute calls fts_client
polaris_fts_client_tmp_manage(polaris_bexecute_t)

# disk space full issue
allow polaris_platform_shell_t self:capability sys_resource;

# CLI: request platform software sdwan admin-tech
# executes: /bin/sh vconfd_script_show_installerfs.sh
polaris_confd_unix_stream_stdio_use(polaris_bexecute_t)

# executes: bash bshell.sh -S -P ---- __CMD__ ---- -f /tmp/sdwan_tech_support_command_file_out.txt
polaris_confd_unix_stream_stdio_use(polaris_bshell_t)

# write to /tmp/out_$(date "+%Y%m%d%H%M%S%N") for base version verification on smu install
polaris_install_tmp_write(polaris_bexecute_t)

# Nutella-XE install image
#/bin/bash /usr/binos/conf/brelay.sh -E -f rp 0 16023 -c /usr/binos/conf/install_engine.sh --operation install_commit
--isremote
polaris_confd_tmp_use_fifo(polaris_bexecute_t)

#awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo
polaris_read_packages_conf(polaris_bexecute_t)
dev_read_rand(polaris_bexecute_t)

# /usr/bin/python3 /usr/binos/conf/issu_client_comp.py compare -b /usr/binos/conf/base_clients.txt -n /bootflash/installer/current_clients.txt
polaris_disk_install_read(polaris_bexecute_t)

# allow "/usr/binos/conf/module_direct.py" (bexecute_t) to execute
# "/usr/sbin/ethtool" (ifconfig_exec_t) when invoking CLI
# "show platform1 hardware subslot <slot/card> backplane statistics"
sysnet_domtrans_ifconfig(polaris_bexecute_t)
# Write into pipe created by stack_mgr
# Parent Child Relation - stack_mgr -> mcp_trace_request -> brelay (to relay output to active)
optional_policy({
    polaris_use_stack_mgr_fifo(polaris_bexecute_t)
})

polaris_etc_list(polaris_bexecute_t)
# manage /tmp/existing_rommon_info file
polaris_manage_rommon_info(polaris_capsule_upgrade_t)

# Policies for "upgrade rom-monitor capsule primary switch 1 R0" CLI
#/usr/binos/conf/bexecute.sh -c /usr/binos/conf/cat9k-primary-capsule-upgrade.sh
#cat9k-primary-capsule-upgrade.sh have to run in its own domain
polaris_utility_domain_template(capsule_upgrade)

polaris_bootflash_manage(polaris_capsule_upgrade_t)

type polaris_capsule_upgrade_log_t;
polaris_pfile_type(polaris_capsule_upgrade_log_t)

polaris_capsule_upgrade_log_use(polaris_capsule_upgrade_t)

polaris_bexecute_domain(polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t)

polaris_bexecute_domtrans(polaris_capsule_upgrade_t)
corecmd_exec_bin(polaris_capsule_upgrade_t)
auth_use_nsswitch(polaris_capsule_upgrade_t)
polaris_chasfs_manage(polaris_capsule_upgrade_t)
polaris_epld_read(polaris_capsule_upgrade_t)
telnet_use_ptys(polaris_capsule_upgrade_t)

polaris_rommon_device_read(polaris_capsule_upgrade_t)

# For "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/install_engine.sh
---

# operation install_c",
# uses unix stream socket created by confd as standard I/O.
polaris_conf_socket_unix_stream_stdio_use(polaris_chvrf_t)

# mcp_dmesg_service
polaris_utility_domain_template(mcp_dmesg)

polaris_bexecute_domain(polaris_mcp_dmesg_t, polaris_mcp_dmesg_exec_t)
polaris_bexecute_domtrans(polaris_mcp_dmesg_t)
dmesg_domtrans(polaris_mcp_dmesg_t)
corecmd_exec_bin(polaris_mcp_dmesg_t)
polaris_smand_use_fifo(polaris_mcp_dmesg_t)
auth_use_nsswitch(polaris_mcp_dmesg_t)
telnet_use_ptys(polaris_mcp_dmesg_t)

# allow creation/access of temporary files like /tmp/sh-thd-1608024622
type polaris_mcp_dmesg_tmp_t;
files_type(polaris_mcp_dmesg_tmp_t)
files_tmp_file(polaris_mcp_dmesg_tmp_t)
files_tmp_filetrans(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
fs_getattr_tmpfs(polaris_mcp_dmesg_t)

# allowing reload_fru.sh for doing systemctl list-jobs
systemd_config_generic_services(polaris_bexecute_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/dev/quack -c gen_context(system_u:object_r:polaris_quack_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
policy_module(polarisdbm, 1.0);

gen_require(
    type polaris_dbm_t;
')

ifdef(`nyquist_platform',`
gen_require(
    type polaris_bt_logger_dbm_mqipc_t;
')
#endif

polaris_mqipc_create_name(polaris_dbm_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)

polaris_btrace_data_manage(polaris_dbm_t)
polaris_crft_data_manage(polaris_dbm_t)
polaris_chasfs_manage(polaris_dbm_t)
polaris_tdlresolve_read(polaris_dbm_t)
polaris_tdlldb_list_dirs(polaris_dbm_t)
polaris_cpld_read(polaris_dbm_t)
polaris_flashlib_read(polaris_dbm_t)
polaris_ripc_sman_ui_serv_connect(polaris_dbm_t)
polaris_db_tdlldb_dir_use(polaris_dbm_t)
polaris_libeiutil_build_config_directory(polaris_dbm_t)
polaris_cfg_data/manage(polaris_dbm_t)

allow polaris_dbm_t self:capability { sys_resource };
allow polaris_dbm_t self:process setrlimit;

# dbm listen on 9090 port; in case of ultra only in tcp6
corenet_tcp_bind_websm_port(polaris_dbm_t)
polaris_dyncfg_tmp_read(polaris_dbm_t)

allow polaris_dbm_t self:capability dac_override;
# port 9090, is it exclusively wnc_mgrd port?
corenet_tcp_bind_polaris_wnc_mgrd_port(polaris_dbm_t)
allow polaris_dbm_t self:tcp_socket [shutdown];

# working dbm persistent files in /bootflash/.dbpersist
type polaris_disk_dbm_t;
polaris_disk_type(polaris_disk_dbm_t)

polaris_tlddbpersist_setup(polaris_dbm_t)

# dbm on active syncs with /bootflash/.dbpersist on standby
# related call dbm_persist_binary_cfg_sync_to_standby()
gen_require('  
    type rsync_t;
')
rsync_entry_domtrans(polaris_dbm_t, rsync_t)

polaris_tmp_tlddb_persist_setup(polaris_dbm_t)

logging_send_syslog_msg(polaris_dbm_t)

corecmd_exec_bin(polaris_dbm_t)

corecmd_exec_shell(polaris_dbm_t)

# dbm needs access to "/flash1/user/.installer/install_issu_state"
polaris_disk_install_read(polaris_dbm_t)

# runs over /usr/bin/rsync
corenet_tcp_connect_rsync_port(polaris_dbm_t)

# tar invocation in dbm code necessitates this permission
auth_map_passwd(polaris_dbm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.te
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#  
# Sep 2020, Sridhar C  
#  
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#  
# /tmp/tlscd(/.*)? gen_context(system_u:object_r:polaris_tlscd_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.fc
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#  
/tmp/fp/lipc    -d gen_context(system_u:object_r:polaris_lipc_t,s0)  
/tmp/rp/lipc    -d gen_context(system_u:object_r:polaris_lipc_t,s0)  
/tmp/cc/lipc    -d gen_context(system_u:object_r:polaris_lipc_t,s0)  

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipe.fc  

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#  
# April 2017, Victor Kamensky  
#  
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#  
policy_module(polarisdmincsshdfwd, 1.0);

gen_require(
  type polaris_dmi_ncsshd_fwd_t;
)

polaris_btrace_data_manage(polaris_dmi_ncsshd_fwd_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_fwd_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_fwd_t)
polaris_tldldb_list_dirs(polaris_dmi_ncsshd_fwd_t)
polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)
polaris_flashlib_read(polaris_dmi_ncsshd_fwd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_ncsshd_fwd_t)

allow polaris_dmi_ncsshd_fwd_t self:unix_stream_socket create_stream_socket_perms;

type polaris_dmi_ncsshd_log_t;
files_tmp_file(polaris_dmi_ncsshd_log_t)
manage_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t)
manage_sock_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t)
files_tmp_filetrans(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, { file sock_file })

logging_send_syslog_msg(polaris_dmi_ncsshd_fwd_t)
polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)

# allow to execute execute_confd_cli.sh under confd domain
polaris_confdomtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexecute_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexecute(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshd_fwd.te
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#
# April 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/cyan_init.sh -- gen_context(system_u:object_r:polaris_dynconf_exec_t,s0)
/usr/bin/os/conf/dynconf_setup.sh -- gen_context(system_u:object_r:polaris_dynconf_exec_t,s0)

# temp files created by cyan_init.sh
/tmp/cyan/cyan.log gen_context(system_u:object_r:polaris_dynconf_log_t,s0)
/tmp/cyan/cyan_runtime.log gen_context(system_u:object_r:polaris_dynconf_log_t,s0)
/tmp/cyan(/.*)? gen_context(system_u:object_r:polaris_dynconf_tmp_t,s0)
/tmp/cyan/lock gen_context(system_u:object_r:polaris_dynconf_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.fc
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#
# July 2017, Victor Kamensky
#
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#
### <summary>Polaris bexecute Policy Rules.</summary>

#########################################################################
##
### Execute bexecute in the polaris_bexecute domain.
### </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
interface('polaris_bexecute_domtrans',
gen_require('’
type polaris_bexecute_t, polaris_bexecute_exec_t;
’)
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bexecute_exec_t, polaris_bexecute_t)
’)

########################################################################
## <summary>
##	Allow domain to be started by bexecute with
##	transition into specific service domain.
## </summary>
## <param name="domain">
##	<summary>
##	Type to be used to run utility.
##	</summary>
## </param>
## <param name="entry_point">
##	<summary>
##	Type of the program to be used as an entry point to this domain.
##	</summary>
## </param>
interface('polaris_bexecute_domain',
gen_require('’
type polaris_bexecute_t;
’)

domtrans_pattern(polaris_bexecute_t, $2, $1)
’)

########################################################################
## <summary>
##	Execute mcp_chvrf.sh in the polaris_chvrf domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
## <summary>
## Execute mcp_chvrf.sh in the caller domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_exec_chvrf',
    gen_require('type polaris_chvrf_exec_t;')
)

corecmd_search_bin($1)
can_exec($1, polaris_chvrf_exec_t)
')

## <summary>
## Execute ngio_module_session.sh in the polaris_ngio_module_session domain
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>

interface('polaris_ngio_module_session_domtrans',
gen_require('type polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t;')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_ngio_module_session_exec_t, polaris_ngio_module_session_t)
')
## <summary>
## Allow the specified domain to send signals to any polaris process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_send_signal_to_bexecute',
  gen_require(
    type polaris_bexecute_t;
  ')
  allow $1 polaris_bexecute_t:process signal_perms;
')

## <summary>
## Allow manage of polaris_bash_tmp_t.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_bash_tmp_manage',
  gen_require(
    type user_home_dir_t;
    type polaris_bash_tmp_t;
  ')
  manage_dirs_pattern($1, user_home_dir_t, polaris_bash_tmp_t)
  manage_files_pattern($1, polaris_bash_tmp_t, polaris_bash_tmp_t)
')

## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
# <summary>
# Send messages to ioucon unix datagram sockets.
# </summary>

# <param name="domain">
# Domain allowed access.
# </param>

interface(`polaris_ioucon_dgram_send`,
  gen_require(`
    type polaris_ioucon_t;
  `)
)

allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
')

# <summary>
# Execute cat9k-primary-capsule-upgrade.sh , cat9k-capsule-upgrade.sh in its own domain.
# </summary>

# <param name="domain">
# Domain allowed to transition.
# </param>

interface(`polaris_capsule_upgrade_domtrans`,
  gen_require(`
    type polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t;
  `)
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_capsule_upgrade_exec_t, polaris_capsule_upgrade_t)')
Work(open, create, append, getattr) with /capsule-upgrade.log file

Domain allowed access.

Domain allowed access.

allow $1 polaris_capsule_upgrade_log_t:filesystem getattr;

manage_files_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log")
create_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
getattr_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
append_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
allow $1 polaris_capsule_upgrade_log_t:file map;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.if
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# March 2017, Victor Kamensky

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policy_module(polarisobfl, 1.0);

type polaris_obfl_data_t;
files_type(polaris_obfl_data_t)
gen_require("
    type init_t;
    type default_t;
")
type tmp_t;
    attribute domain;
}

filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl")
# edison uses obfl0 name
filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl0")
# /tmp/obfl
files_tmp_filetrans(domain, polaris_obfl_data_t, dir, "obfl")

# allow obfl data file reside on persistent storage
polaris_pfile_type(polaris_obfl_data_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.te
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# # March 2017, Victor Kamensky
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#

policy_module(polarisbtlogger, 1.0);

gен_require(
    type polaris_bt_logger_t;
')

polaris_btrace_data_manage(polaris_bt_logger_t)
polaris_crft_data_manage(polaris_bt_logger_t)
polaris_chasfs_manage(polaris_bt_logger_t)
polaris_tdlresolve_read(polaris_bt_logger_t)
polaris_tdldb_list_dirs(polaris_bt_logger_t)
polaris_cpld_read(polaris_bt_logger_t)
polaris_flashlib_read(polaris_bt_logger_t)
polaris_ripc_sman_ui_serv_connect(polaris_bt_logger_t)
polaris_db_tdldb_dir_use(polaris_bt_logger_t)

*****************************************************************************
# mqipc manual, one that missing in platform tdl file
*****************************************************************************

# mq.-bt_logger_dbm
type polaris_bt_logger_dbm_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_dbm_mqipc_t)

# mq.-bt_logger_fman-rp
type polaris_bt_logger_fman_rp_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_fman_rp_mqipc_t)

# mq.-bt_logger_iosd
type polaris_bt_logger_iosd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_iosd_mqipc_t)

# mq.-bt_logger_smd
type polaris_bt_logger_smd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_smd_mqipc_t)

polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)

allow polaris_bt_logger_t self:capability { dac_override ];

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.te
No license file was found, but licenses were detected in source scan.

#
# November 2017, Victor Kamensky
#
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#
#
## <summary>Polaris gnmib Policy Rules.</summary>

###################################################################
## <summary>
## Create rule for ndbutils file ".l.schema_use.gnmib" under /var/lock/ndbutil
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_gnmib_ndbutil_lock',
  gen_require(
    type polaris_confd_ndbutil_lock_t;
    type polaris_gnmib_ndbutil_lock_t;
filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t, file, $2)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t)

allow $1 polaris_gnmib_ndbutil_t:file { watch watch_reads }

### Allow reading gnoi image files

interface(`polaris_gnmib_gnoi_images_read',
    gen_require(
        type polaris_gnmib_gnoi_images_t;
    ')
read_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
)

### Allow manage gnoi image files

interface(`polaris_gnmib_gnoi_images_manage',
    gen_require(
        type polaris_gnmib_gnoi_images_t;
    ')
manage_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.if
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#
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#
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#

policy_module(polaristldldb, 1.0);

###############################################################################
# Polaris tdldb (infra/tdllib)
###############################################################################
type polaris_tddldb_t;
polaris_tddldb_type(polaris_tddldb_t)

attribute polaris_tddldb;

# any process creating tdldb in /tmp/rp/tdldb should transition into its domain
gen_require('    
    attribute domain;
')
files_tmp_filetrans(domain, polaris_tddldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL
type polaris_dir_db_tddldb_t;
polaris_tddldb_type(polaris_dir_db_tddldb_t)

type polaris_tddldb_persist_t;
polaris_tddldb_type(polaris_tddldb_persist_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristldldb.te

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#
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#
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#

policy_module(polarislfts, 1.0);

###############################################################################
# Polaris lfts
###############################################################################
type polaris_lfts_device_t;
debug(polaris_lfts_device_t)

# "ip netns add foo" commands mounts "foo" under "/var/run/netns"
egen_require(' type ifconfig_t; type var_run_t;
')
allow ifconfig_t var_run_t:dir mounton;

# "ip netns exec 16 sysctl -w net.core.vrfid=16" commands mounts "16" to "/sys"
egen_require(' type ifconfig_t; type unlabeled_t;
')
allow ifconfig_t unlabeled_t:dir mounton;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/var/tmp/trace/ngx_access.log  gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/ngx_error.log   gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.pid      gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.accept gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.cookie_tbl gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.login_count gen_context(system_u:object_r:httpd_log_t, s0)
/tmp/nginx_aaa    gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_master gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_session gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)

# /tmp base folder for nginx apps to create temporary files.
/tmp/nginx_webui_tmp  -d  gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx  -d    gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)

# Polaris WebUI Aireos translator files
/usr/binos/conf/aireos_translate_helper.sh
  gen_context(system_u:object_r:polaris_nginx_webui_aireos_translator_exec_t, s0)
/var/scripts/python/aireosConfigTranslator(/.*)? --
gen_context(system_u:object_r:polaris_airesTranslator_scripts_t,s0)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

/var/scripts/webui_install.sh gen_context(system_u:object_r:polaris_nginx_webui_exec_t, s0)
/usr/binos/conf/webui_upgrade_helper.sh gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/webui_smu_helper.sh gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/ra_trace_webui_helper.sh gen_context(system_u:object_r:polaris_nginx_webui_trace_filter_exec_t, s0)
/usr/binos/conf/nginx-conf gen_context(system_u:object_r:httpd_config_t, s0)
/usr/binos/conf/nginx-conf/servers gen_context(system_u:object_r:httpd_config_t, s0)
/tmp/fts_client gen_context(system_u:object_r:polaris_fts_client_tmp_t, s0)
/usr/binos/conf/nginx_helper.sh gen_context(system_u:object_r:polaris_nginx_helper_exec_t, s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.fc
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#
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#
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#

policy_module(polarismdtpubd, 1.0);

gen_require('type polaris_mdt_pubd_t;
')

polaris_btrace_data_manage(polaris_mdt_pubd_t)
polaris_chasfs_manage(polaris_mdt_pubd_t)
polaris_tdlresolve_read(polaris_mdt_pubd_t)
polaris_tdldb_list_dirs(polaris_mdt_pubd_t)
polaris_cpld_read(polaris_mdt_pubd_t)
polaris_lua_read(polaris_mdt_pubd_t)
polaris_flashlib_read(polaris_mdt_pubd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mdt_pubd_t)
polaris_db_tdldb_dir_use(polaris_mdt_pubd_t)

#For initializing capabilities DB cfg file
polaris_libeiutil_build_config_directory(polaris_mdt_pubd_t)
polaris_cfg_data_manage(polaris_mdt_pubd_t)

optional_policy(''
# deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_mdt_pubd_t)
# and allow read shared schema
polaris_confds_shared_schema_read(polaris_mdt_pubd_t)

# read /proc/confd_pid/exe file
polaris_confds_read(polaris_mdt_pubd_t)

# pubd could be configured to connect any port on DNAC
# please see cndp_setup_tcp_socket function
polaris_lfts_dev_use(polaris_mdt_pubd_t)
corenet_tcp_connect_all_ports(polaris_mdt_pubd_t)

polaris_ndbload_lock_use(polaris_mdt_pubd_t)
corenet_tcp_connect_polaris_pttcd_port(polaris_mdt_pubd_t)
corenet_tcp_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)
corenet_tcp_bind_all_unreserved_ports(polaris_mdt_pubd_t)

allow polaris_mdt_pubd_t self:capability { dac_override dac_read_search }

# create ndbutil directory under /var/lock
polaris_confds_ndbutil_create(polaris_mdt_pubd_t)
polaris_ndbutil_lock_template(polaris_mdt_pubd_t, pubd, ".l.schema_use.pubd")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_mdt_pubd_t)

# handling /tmp/rp/.telemetry and /tmp/rp/telemetry
type polaris_mdt_pubd_tmp_t;
files_tmp_file(polaris_mdt_pubd_tmp_t)
files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, "telemetry")
files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, ".telemetry")
gen_require(

type tmp_t;
)
manage_dirs_pattern(polaris_mdt_pubd_t, { tmp_t polaris_mdt_pubd_tmp_t }, polaris_mdt_pubd_tmp_t)
manage_files_pattern(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t)

# from evconfd_dynamic_load
polaris_confds_shared_schema_watch(polaris_mdt_pubd_t)

# allow grpc library to shutdown socket
allow polaris_mdt_pubd_t self:tcp_socket create_socket_perms;

# allow pubd to access logging facility
logging_send_syslog_msg(polaris_mdt_pubd_t)
# enabling access to /etc/netns and /etc/hosts
polaris_namespace_set_netns_with_etc(polaris_mdt_pubd_t)
gen_require(
    type net_conf_t;
)
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, dir, "netns")

# allow pubd to create, modify, delete system network config files/dir
sysnet_manage_config(polaris_mdt_pubd_t)
sysnet_manage_config_dirs(polaris_mdt_pubd_t)

# allow pubd to connect socket
allow polaris_mdt_pubd_t self:udp_socket connect;

# allow pubd (object net_conf_t) to watch /etc/netns/1/resolv.conf
allow polaris_mdt_pubd_t net_conf_t:{file dir} watch;

# read access to /dev/random
dev_read_rand(polaris_mdt_pubd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tdldb_persist_setup(polaris_mdt_pubd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.te
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#
#
# polarisstackmgr file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.fc
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dnl Mar 2020, Manu Roy
dnl
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/hellcatmaps.m4
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#  
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#  
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#  
	policy_module(polarisperiodic, 1.0);


gen_require(
    
type polaris_periodic_t;

')

corecmd_exec_bin(polaris_periodic_t)
corecmd_exec_shell(polaris_periodic_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_periodic_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_periodic_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_periodic_t)

# read /etc/init.d/common-utility-functions
init_read_script_files(polaris_periodic_t)

fs_getattr_all_fs(polaris_periodic_t)

# work with /tmp files
    
type polaris_periodic_tmp_t;
files_tmp_file(polaris_periodic_tmp_t)
manage_files_pattern(polaris_periodic_t, tmp_t, polaris_periodic_tmp_t)
files_tmp_filetrans(polaris_periodic_t, polaris_periodic_tmp_t, file)

allow polaris_periodic_t self:capability sys_resource;
polaris_btrace_data_manage(polaris_periodic_t)
polaris_chasfs_manage(polaris_periodic_t)
polaris_cpld_read(polaris_periodic_t)
polaris_proc_rmonbifo_read(polaris_periodic_t)
polaris_rmonbifo_tmp_read(polaris_periodic_t)
polaris_boot_tmp_read(polaris_periodic_t)
polaris_read_debug_conf(polaris_periodic_t)
polaris_persistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polaris_install_tmp_read(polaris_periodic_t)

optional_policy('polaris_ncd_tmp_read(polaris_periodic_t)
')
# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)
# "install add file" CLI triggers logger executing "pidof linux_iosd-image" which
# read "/sys/devices/system/cpu/online"
dev_read_sysfs(polaris_periodic_t)
#
#/usr/binos/conf/cleanup.sh do_cleanup does packages and other umount calls
mount_domtrans(polaris_periodic_t)
polaris_sw_data_manage(polaris_periodic_t)

# determine if the installer is executing
domain_read_all_domains_state(polaris_periodic_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_periodic_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.te
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#

/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t.s0)
/tmp/microcode_update(/.*)? gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t.s0)

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#
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#

policy_module(polarisfpm, 1.0);

gen_require('  
    type polaris_fpm_t;
')
polaris_chasfs_manage(polaris_fpm_t)
polaris_cpld_read(polaris_fpm_t)
polaris_flashlib_read(polaris_fpm_t)
polaris_tdlresolve_read(polaris_fpm_t)

polaris_ripc_sman_ui_serv_connect(polaris_fpm_t)

polaris_db_tldlb_dir_use(polaris_fpm_t)

logging_send_syslog_msg(polaris_fpm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_fpm_t)

# /var/run/fpmd socket and pid
type polaris_fpm_var_run_t;
files_pid_file(polaris_fpm_var_run_t)
manage_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
manage_sock_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
files_pid_filetrans(polaris_fpm_t, polaris_fpm_var_run_t, { file sock_file })

polaris_ttm_var_sock_write(polaris_fpm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_fpm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_fpm_t)
files_manage_boot_files(polaris_fpm_t)

polaris_cedge_tmpfs_manage(polaris_fpm_t)
polaris_fmrp2fpm_mqipc_use(polaris_fpm_t)

# manually create mqipc channel: missing in TDL
type polaris_fpm2fmrp_mqipc_t;
polaris_mqipc_type(polaris_fpm2fmrp_mqipc_t);
polaris_mqipc_create_name(polaris_fpm_t, polaris_fpm2fmrp_mqipc_t, fpm2fmrp_vulcan_mqipc)

# fp_scaling_read_core_count accesses cgroups file at
#/sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_fpm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.te

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dnl

dnl April 2018, Victor Kamensky
dnl

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dnl
dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process_te.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_te.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_te.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_te.m4')


dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformipcauto, 1.0);
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
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## <summary>Polaris polarishytoolsd Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishytoolsd.if
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#
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#

/tmp/tdlresolve_tmp(/.*)? gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/tmp/tdlresolve(/.*)? gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/usr/bin/os/conf/global.service.conf -- gen_context(system_u:object_r:polaris_global_service_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.fc
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#

## <summary>Polaris ttm Policy Rules.</summary>

#######################################
## <summary>
##      Write ttm /var/run socket file
## </summary>
## <param name="domain">
interface(`polaris_ttm_var_sock_write',
    gen_require(`
        type polaris_ttm_t;
        type polaris_ttm_var_run_t;
        type var_run_t;
    ')
    write_sock_files_pattern($1, var_run_t, polaris_ttm_var_run_t)
    allow $1 polaris_ttm_t:unix_stream_socket { connectto };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.if
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#

## <summary>Polaris CYAN Policy Rules.</summary>

#######################################
## <summary>
## Execute dyncfg in the dyncfg domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_dyncfg_domtrans',
    gen_require(`
        type polaris_dyncfg_t, polaris_dyncfg_exec_t;
    ')
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_dyncfg_exec_t, polaris_dyncfg_t)
')
## <summary>
## Make the specified domain able to read tmp file created by
## cyan_init.sh like /tmp/cyan/mono.cdb
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_dyncfg_tmp_read',
    gen_require('type polaris_dyncfg_tmp_t; type tmp_t;
')

read_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
read_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;

# need by shell that is called from luajit script
auth_read_passwd($1)
')

## <summary>
## Make the specified domain able to manage tmp file created by
cyan_init.sh like /tmp/cyan.lock
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface('polaris_dyncfg_tmp_manage',
    gen_require('type polaris_dyncfg_tmp_t; type tmp_t;
')

manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;
')
## <summary>
## Execute /tmp/dyncfg/N initialization within given domain.
##
## Effectively one need this if it needs to run dyncfg_db_run_init_script,
dyncfg_db_init functions within domain context.
##
## Note it involves lua execution that leads to execmem. Also lua script
may execve shell and some other simple bin processes like mkdir or ln.
## </summary>

## <param name="type">
## Domain allowed access.
## </param>

# interface(`polaris_dyncfg_setup',`
   gen_require(`
       type polaris_dyncfg_tmp_t;
       type tmp_t;
   ')
   files_tmp_filetrans($1, polaris_dyncfg_tmp_t, dir, "cyan")
   manage_dirs_pattern($1, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
   manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
   manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
   allow $1 polaris_dyncfg_tmp_t:file map;

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow $1 self:process execmem;

# LOOK AT ME lua initialization code still uses system function call do some
# trivial things like mkdir. But because of that we need to grant shell and
# bin access to all callers of
corecmd_exec_shell($1)
corecmd_exec_bin($1)

# In chassisAttrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(`
   gen_require(`
       type polaris_wncmgrd_exec_t;
       type bin_t;
   ')
   read_files_pattern($1, bin_t, polaris_wncmgrd_exec_t)
   ')

# lua code reads /tmp/sw/boot/rmonbifo/boardtype
polaris_rmonbifo_tmp_read($1)
')
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#
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#

policy_module(polariscppcp, 1.0);

gen_require(`
    type polaris_cpp_cp_t;
`)

polaris_btrace_data_manage(polaris_cpp_cp_t)
polaris_crft_data_manage(polaris_cpp_cp_t)
polaris_chasfs_manager(polaris_cpp_cp_t)
polaris_tdresolve_read(polaris_cpp_cp_t)
polaris_tdlldb_list_dirs(polaris_cpp_cp_t)
polaris_cpld_read(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_cp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_cp_t)
polaris_cpp_process(polaris_cpp_cp_t)
polaris_cpp_dev_use(polaris_cpp_cp_t)
polaris_icc_broken_relocations(polaris_cpp_cp_t)

logging_send_syslog_msg(polaris_cpp_cp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCVh58515)
ifdef(`crankshaft_family',`
    polaris_dev_mem_use(polaris_cpp_cp_t)
`
)

# cpp_palci_wallclock_time_ticks function reads /var/lock/subsys/sntp.offset
files_read_all_locks(polaris_cpp_cp_t)
# allow objstore access
polaris_disk_objstore_read(polaris_cpp_cp_t)

optional_policy('polaris_spa_dev_use(polaris_cpp_cp_t)
')

# handle geodb file access
polaris_geodb_files_manage(polaris_cpp_cp_t)

optional_policy('polaris_cbdma_dev_use(polaris_cpp_cp_t)
 polaris_hkp_dev_use(polaris_cpp_cp_t)

polaris_hkp_dev_use(polaris_cpp_cp_t)
# Access /dev/astro
polaris_astro_dev_use(polaris_cpp_cp_t)
polaris_vega_dev_use(polaris_cpp_cp_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_cp_t)
polaris_cpld_dev_use(polaris_cpp_cp_t)

policy_module(polariscppstats, 1.0);

gen_require('type polaris_cpp_stats_t;
')
polaris_btrace_data_manage(polaris_cpp_stats_t)
polaris_crft_data_manage(polaris_cpp_stats_t)
polaris_chasfs_manage(polaris_cpp_stats_t)
polaris_tdlresolve_read(polaris_cpp_stats_t)
polaris_tdlldb_list_dirs(polaris_cpp_stats_t)
polaris_cpld_read(polaris_cpp_stats_t)
polaris_flashlib_read(polaris_cpp_stats_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_stats_t)
polaris_cpp_tmp_files_use(polaris_cpp_stats_t)
# works with /dev/cpp_dev_info, /dev/cpp and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_stats_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_stats_t)

polaris_icc_broken_relocations(polaris_cpp_stats_t)

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_stats_t)

optional_policy('polaris_cbdma_dev_use(polaris_cpp_stats_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_stats_t)
polaris_cpld_dev_use(polaris_cpp_stats_t)

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#

policy_module(polarislm, 1.0);

gen_require('type polaris_lm_t;
')
polaris_btrace_data_manage(polaris_lm_t)
polaris_crft_data_manage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tdlresolve_read(polaris_lm_t)
polaris_tdldb_list_dirs(polaris_lm_t)
polaris_cpld_read(polaris_lm_t)
polaris_flashlib_read(polaris_lm_t)
polaris_ripc_sman_ui_serv_connect(polaris_lm_t)

allow polaris_lm_t self:capability { dac_override };

# allow to read /proc/mtd
kernel_read_system_state(polaris_lm_t)
# work with /tmp files (/tmp/iosd_level)
type polaris_lm_tmp_t;
files_tmp_file(polaris_lm_tmp_t)
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "iosd_level")
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "stack_apcount")
manage_files_pattern(polaris_lm_t, tmp_t, polaris_lm_tmp_t)

polaris_dyncfg_tmp_read(polaris_lm_t)

polaris_disk_license_manage(polaris_lm_t)

polaris_disk_csl_manage(polaris_lm_t)

logging_send_syslog_msg(polaris_lm_t)

polaris_lua_read(polaris_lm_t)

# permission to access /tmp/rp/lipc/lmanrtu_stackrtu_socket
# polaris_lm_t policy
allow polaris_lm_t self:unix_stream_socket connectto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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# All rights reserved
#
/usr/binos/conf/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#
policy_module(polarislipc, 1.0);

####################################################################################################################################
# LIPC policy

```plaintext
gen_require(
    type polaris_pvp_t;
    attribute polaris_extended_domain;
)

type polaris_lipc_t;
files_type(polaris_lipc_t)

files_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
init_script_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")

# in some cases pvp.sh creates lipc tmp directory it needs permisions for that
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_lipc_t)

gen_require(
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
)
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_lipc_t, dir, "lipc")
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.te

No license file was found, but licenses were detected in source scan.

# September 2018, Anubha Balani
#
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#

```plaintext
## <summary>Polaris Memory Service Policy Rules.</summary>

# Polaris memory: libmaroon and such

## <summary>
## Allow the specified domain to check existence of
## /lib/systemd/system/ksm.service file. Effectively checking
## whether KSM kernel feature is enabled on device or not.
## </summary>
## <param name="domain">
## Domain allowed access.
```
interface('polaris_ksm_run_check',
    gen_require(
        type systemd_unit_file_t;
    )
)

gattrs_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)

interface('polaris_maroon_data_manage_all',
    gen_require(
        attribute polaris_maroon_data_domain;
        type polaris_maroon_base_t;
    )
)

manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_data_domain)
allow $1 polaris_maroon_data_domain:file map;

# manage temporary files in maroon_stats directory
manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)

interface('polaris_maroon_data_type',
    gen_require(
        type polaris_maroon_base_t;
    )
)

files_type($1)
gen_require('attribute polaris_maroon_data_domain;')
type attribute $1 polaris_maroon_data_domain;
')

########################################################
## <summary>
## Process to manage its own maroon files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="file_type">
## File type of maroon that corresponds to given domain.
## </param>
## <rolebase/>
#
interface('polaris_maroon_data_client',
gen_require('type polaris_maroon_base_t;
')
manage_files_pattern($1, polaris_maroon_base_t, $2)
allow $1 $2:file map;
filetrans_pattern($1, polaris_maroon_base_t, $2, file)
')

########################################################
## <summary>
## Process to manage its own maroon files
## </summary>
## <param name="domain_stem">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_maroon_data_client_template',
gen_require('type polaris_maroon_base_t;
')
type polaris_$1_maroon_t;
polaris_maroon_data_type(polaris_$1_maroon_t)

polaris_maroon_data_client(polaris_$1_t, polaris_$1_maroon_t)

')

******************************************************************************
## <summary>
##      Getattr of polaris_zram_device_t files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_zram_getattr`,
   gen_require(
   type device_t;
   type polaris_zram_device_t;
   )
   getattr_blk_files_pattern($1, device_t, polaris_zram_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/bootflash/dbpersist(/.*)?            gen_context(system_u:object_r:polaris_disk_dbm_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisreflector, 1.0);

polaris_process_domain_template(reflector)

corecmd_exec_bin(polaris_reflector_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_reflector_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_reflector_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_reflector_t)

# read /etc/hosts file
sysnet_read_config(polaris_reflector_t)

# work with /tmp files
type polaris_reflector_tmp_t;
files_tmp_file(polaris_reflector_tmp_t)
manage_dirs_pattern(polaris_reflector_t, tmp_t, polaris_reflector_tmp_t)
manage_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
manage_fifo_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
files_tmp_filetrans(polaris_reflector_t, polaris_reflector_tmp_t, { file dir })

# reflector can work with droputil tmp files
polaris_droputil_manage_tmp_files(polaris_reflector_t)

#rsync_exec(polaris_reflector_t)
gen_require(
   type rsync_t;
)
rsync_entry_domtrans(polaris_reflector_t, rsync_t)
allow rsync_t polaris_reflector_t:process sigchld;
# upon exec rsync inherits reflector.sh stdout/stderr which are
# polaris_reflector_t fifo_files
allow rsync_t polaris_reflector_t:fifo_file write;

allow polaris_reflector_t self:capability { sys_resource dac_override };
allow polaris_reflector_t self:process setpgid;

polaris_btrace_data_manage(polaris_reflector_t)
polaris_cpld_read(polaris_reflector_t)
polaris_chasfs_manage(polaris_reflector_t)
polaris_boot_tmp_read(polaris_reflector_t)
polaris_read_debug_conf(polaris_reflector_t)
polaris_disk_crashinfo_getattr(polaris_reflector_t)
polaris_rmonbifo_tmp_read(polaris_reflector_t)

# watch over /tmp/rp/dropbox
polaris_droputil_tmp_watch(polaris_reflector_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
optional_policy('polaris_ncd_tmp_read(polaris_reflector_t)')

# 'rm -rf /tmp/rp/reflector'
fs_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarispman, 1.0);
polaris_process_domain_template(pman)

# reassess all permissions granted here for new pman
# - do we clone this domain to pmanc, or replace it?
gen_require('type polaris_psvp_t;
  type polaris_pvp_t;
  ')CORECMD_EXEC_BIN(polaris_pman_t)
corecmd_exec_shell(polaris_pman_t)
# can execute process in polaris domain
polaris_exec(polaris_pman_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. Le it need quite a bit of priviledges
domain_read_all_domains_state(polaris_pman_t)

# pman wants to write to /proc/<pid>/oom_adj of each process
# it started. Now oom_adj is under label of process that owns
# it, so for now let pman to be able to write into any file
# in polaris_domain. Latter try to clean it up by transitioning
# oom_adj into separate domain?
gen_require('    
    attribute polaris_domain;
')
manage_files_pattern(polaris_pman_t, polaris_domain, polaris_domain)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pman_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pman_t)

# read /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_pman_t)

# read/write cgroups files
fs_rw_cgroup_files(polaris_pman_t)

dmidecode_domtrans(polaris_pman_t)

allow polaris_pman_t self:capability { sys_nice sys_resource dac_override sys_rawio sys_admin };

polaris_btrace_data_manage(polaris_pman_t)
polaris_chasfs_manage(polaris_pman_t)
polaris_cpld_read(polaris_pman_t)
ifdef(ngwc_family, polaris_cpld_write(polaris_pman_t)
')
polaris_proc_rmonbifo_read(polaris_pman_t)
polaris_rmonbifo_tmp_read(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)
polaris_read_debug_conf(polaris_pman_t)
polaris_disk_crashinfo_getattr(polaris_pman_t)

# work with /tmp files
type polaris_pman_tmp_t;
files_tmp_file(polaris_pman_tmp_t)
manage_dirs_pattern(polaris_pman_t, tmp_t, polaris_pman_tmp_t)
manage_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_fifo_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
files_tmp_filetrans(polaris_pman_t, polaris_pman_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "process")
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "pman_ports")

# pcohort reads files in /tmp/rp/process directory
gen_require('attribute polaris_extended_domain;
')
read_files_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)

# bash needs setpgid in its make_child function
allow polaris_pman_t self:process { setpgid ];

# pmanlite uses getsid
allow polaris_pman_t self:process { getsession ];

# pman call renice utility to change process nice level
allow polaris_pman_t self:process { setsched ];

# pman needs to work with pvp tmp files
polaris_pvp_manage_tmp_files(polaris_pman_t)

# on ultra pman waits for /tmp/cpp_ifdev_rep pipes appearence before
# proceeding further before it starts iosd
optional_policy('polaris_cpp_tmp_ifdev_getattr(polaris_pman_t)

# /tmp/vxe_ucode_image created by some systemd units and accessed
# by pman, lets transition it into polaris_pman_tmp_t domain
gen_require('type initrc_t;
    type init_t;
')
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "vxe_ucode_image")
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "wlc_ucode_image")
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "utah_ucode_image")
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "fugazi_ucode_image")
')

# pman needs to manage cgroups membership of dofferent processes
# See move_to_cgroup pman function. It needs setsched permission
domain_setpriority_all_domains(polaris_pman_t)

# pman.sh can call logger command
logging_send_syslog_msg(polaris_pman_t)

# pman can receive signals from any polaris domain process
polaris_receive_signal_from_domain(polaris_pman_t)

# pman.sh calls pidof command (similar to ps)
# pidof needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_pman_t)
# pidof commands wants sys_ptrace
allow polaris_pman_t self:capability sys_ptrace;

# pman can send signal to anything
domain_signal_all_domains(polaris_pman_t)

# pmanlite can getpgid to its child group processes
domain_getpgid_all_domains(polaris_pman_t)

# pmanlite uses killpg(<child pid>,SIGNULL) to test its child processes
domain_signull_all_domains(polaris_pman_t)

term_use_unallocated_ttys(polaris_pman_t)

optional_policy('polaris_repm_tmp_manage(polaris_pman_t)')

optional_policy('
# pman on nyquist ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_pman_t)
')

# runs find over /proc
kernel_getattr_proc(polaris_pman_t)

# PLEASE LOOK AT ME: pman removes /tmp/subpkg directory after CSCvm14562 commit
# back out and change properly after CSCvm51181 is fixed
polaris_install_tmp_manage(polaris_pman_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_pman_t)
fs_getattr_xattr_fs(polaris_pman_t)

# domain for gdbserver started by pman
polaris_utility_domain_template(gdb)

domtrans_pattern(polaris_pman_t, polaris_gdb_exec_t, polaris_gdb_t)

# pman starts gdbserver with stdout pointing to btrace fifo
polaris_use_btrace_fifo(polaris_gdb_t)

# gdbserver reads /proc/$pid/exe of a process it gets attached to.
# Allow to read state of all processes for now.
domain_read_all_domains_state(polaris_gdb_t)
# allow gdbserver to bind to all unreserved ports for now
corenets_tcp_bind_unreserved_ports(polaris_gdb_t)
corenets_tcp_bind_generic_node(polaris_gdb_t)

allow polaris_gdb_t self:process { ptrace setpgid };
allow polaris_gdb_t self:tcp_socket { accept bind create getattr listen setsockopt };

# pman update iosxe_control_processes/iosxe_mgmt_processes/tasks
fs_manage_cgroup_dirs(polaris_pman_t)
fs_manage_cgroup_files(polaris_pman_t)

optional_policy(
container_runtime_domtrans(polaris_pman_t)
)

# pman calls show_version for dockerd executable
optional_policy(
polaris_container_runtime_show_version(polaris_pman_t)
)

# needs to access nsfs file during killall invocation
fs_read_nsfs_files(polaris_pman_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pman_t)

# runs over /proc/<pid>/net/stat
kernel_read_network_state_symlinks(polaris_pman_t)

# runs over /proc/<pid>/net/rpc
kernel_read_rpc_sysctls(polaris_pman_t)

# LOOK AT ME: why pman doing it
# from mgmt/confd/confd/src/confd_startup_sh_post_exit.sh archive_errlog function
polaris_btrace_persistent_data_manage(polaris_pman_t)
polaris_confdef_log_manage(polaris_pman_t)
allow polaris_pman_t self:process setfscreate;

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_pman_t)

# /usr/binos/conf/umbrella_init.sh that runs under pman
# copies into /bootflash/ios_core.p7b
polaris_bootflash_manage(polaris_pman_t)

optional_policy(
# we may write bits to the exiting_bays file in /proc
polaris_rw_exiting_bays(polaris_pman_t)
')

ifdef('ngwc_family',
# linux_iosd_image_post_exit.sh restores the slot-based address
# for the management ethernet should be restored on dual RP system.
polaris_chvrf_domtrans(polaris_pman_t)
sysnet_domtrans_ifconfig(polaris_pman_t)

# For use of flashutil preparing for reload
polaris_flashlib_read(polaris_pman_t)
polaris_flashlib_write(polaris_pman_t)
')

# File description leaks for TDL db lock files as processes are managed by
# pman.
# TODO Eventually these fd leaks should be fixed in the calling processes
#
# Note that TDL db lock file interfaces are typically generated by TDL and
# are not found in our local .if files
polaris_tdlresolve_read(polaris_pman_t)
polaris_db_tdldb_ios_oper_use(polaris_pman_t)

ifdef('nyquist_platform',
polaris_db_tdldb_ewlc_operational_use(polaris_pman_t)
polaris_db_tdldb_rogued_use(polaris_pman_t)
polaris_db_tdldb_ewlc_config_use(polaris_pman_t)
polaris_db_tdldb_wstatsd_use(polaris_pman_t)
polaris_db_tdldb_client_global_use(polaris_pman_t)
')

# delete /tmp/booted from linux_iosd_image_post_exit.sh when iosd goes down.
# For example: preparing for reload.
gen_require('    type polaris_iosd_tmp_files_t;
')
allow polaris_pman_t polaris_iosd_tmp_files_t: file { delete_file_perms open };

# Upon exit of a process, pman needs to remove sai directory and files
# associated with the process
polaris_pvp_delete_sai_files(polaris_pman_t)
# rsync port want to establish Tcp connection
# runs over /usr/bin/rsync
corenets Tcp_connect_rsync_port(polaris_pman_t)
rsync_entry_type(polaris_pman_t)

ifdef('crankshaft_family',
# Provide process signal perms to pman.
polaris_caf_proc_signal_perms(polaris_pman_t)
')

# open connections from processes managed by pman can leak. The selinux
# errors associated with these typically come from a forked and renamed
# elastic process like wncd_0. During process forking/startup, node
# binds may cause denials as they are brought up by pman
ifdef(`ngwc_family',`
corenets
if(`sumatra_platform',`
    # Allow pman to execute cman_fp in the polaris_cm_fp_t domain
    polaris_cm_fp_domtrans(polaris_pman_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.te
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dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)
max_elastic_map_set("cc", "elastic", BPROC_WNCD, 0)
max_elastic_map_set("fp", "elastic", BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/nyquistmaps.m4
No license file was found, but licenses were detected in source scan.

#
# Aug 2020, Sridhar
#
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#
### <summary>Polaris xcopy Policy Rules.</summary>

#######################################
## <summary>
##      Execute xcopy related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_xcopy_script_domtrans',
    gen_require(
        type polaris_xcopy_script_t, polaris_xcopy_script_exec_t;
    ')
    domtrans_pattern($1, polaris_xcopy_script_exec_t, polaris_xcopy_script_t)
')
#
#######################################
## <summary>
##      xcopy progress temp file access
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_xcopy_tmp_manage',
gen_require(
    type polaris_xcopy_tmp_t;
manage_dirs_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
manage_files_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.if
No license file was found, but licenses were detected in source scan.

#  
# April 2017, Victor Kamensky
#  
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#
## <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

########################################
## <summary>
##      Read polaris_ncsshd_keys_t files, effectively access
##  /tmp/.ncsshd_authorized_keys created by psd and read by ncsshd
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_ncsshd_authorized_keys_read',`
   gen_require(`
      type polaris_ncsshd_keys_t;
   `)
   read_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
   list_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
`)

########################################
## <summary>
##      Watch /var/run/netns and list contents
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_watch_netns',`
gen_require('  type ifconfig_var_run_t;
')
list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
allow $1 ifconfig_var_run_t:dir watch;
')

########################################
## <summary>
##      Manage polaris_pttcd_tmp_t files, effectively files
## under /tmp/tmppub/interceptor
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_interceptor_manage',
  gen_require('    type polaris_pttcd_tmp_t;
')
  manage_files_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
  manage_dirs_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
  allow $1 polaris_pttcd_tmp_t:{ dir file } watch;
')

########################################
## <summary>
##      Execute a domain transition to run ncsshd polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_ncsshd_mgmt_domtrans',
  gen_require('    type polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_exec_t;
')
domtrans_pattern($1, polaris_dmi_ncsshd_mgmt_exec_t, polaris_dmi_ncsshd_mgmt_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.if
No license file was found, but licenses were detected in source scan.

# 
# March 2017, Victor Kamensky 
# 
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# 

## <summary>Polaris cm_rp Policy Rules.</summary>

### <summary>

## Execute cmand_fp in the polaris_cm_fp_t domain.

### </summary>

### <param name="domain">

## Domain allowed to transition.

### </summary>

### </param>

# interface('polaris_cm_rp_domtrans',

gen_require(
    type polaris_cm_rp_t, polaris_cm_rp_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_rp_exec_t, polaris_cm_rp_t)
')

### <summary>

## Write into fifo file created by cmrp, typical case when

## cmrp starts script under popen.

### </summary>

### <param name="domain">

## Domain allowed access.

### </summary>

### </param>

### <rolecap/>

# interface('polaris_cmrp_use_fifo',

gen_require(
    type polaris_cm_rp_t;
')

write_fifo_files_pattern($1, polaris_cm_rp_t, polaris_cm_rp_t)
### <summary>
### Write/read /tmp/pfu_oirtime.lock file
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_cm_rp_tmp_manage',`
   gen_require(`
       type polaris_cm_rp_tmp_t;
       type tmp_t;
   `)
   manage_dirs_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
   manage_files_pattern($1,{ tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
`)

### <summary>
### Setup policies to access dir and file
### /vol/harddisk/.inv/inv_log_file
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_cm_rp_inv_log_setup',`
   gen_require(`
       type polaris_cm_rp_inv_log_file_t;
       type polaris_disk_harddisk_t;
       type polaris_disk_bootflash_t;
   `)
   filetrans_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t, dir, ".inv")
   # allow access to /vol/harddisk/inv
   manage_dirs_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t)
   # allow access to /vol/harddisk/inv/inv_log_file
   manage_files_pattern($1,{polaris_cm_rp_inv_log_file_t}, polaris_cm_rp_inv_log_file_t)
`)

### <summary>
## Write into /tmp/codesign.txt file created by cm_rp
##</summary>
##<param name="domain">
##<summary>
## Domain allowed to transition.
##</summary>
##</param>
#
interface('polaris_cm_rp_tmp_write',`
    gen_require(`
        type polaris_cm_rp_tmp_t;
    `)
    write_files_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisvdaemon, 1.0);

gen_require(`
    type polaris_vdaemon_t;
`)
polaris_chasfs_manage(polaris_vdaemon_t)
# read and write /bootflash/sdwan/etc/vdaemon_gen_id
polaris_bootflash_manage(polaris_vdaemon_t)
polaris_tdlresolve_read(polaris_vdaemon_t)
polaris_cpld_read(polaris_vdaemon_t)
polaris_flashlib_read(polaris_vdaemon_t)
polaris_ripc_sman_ui_serv_connect(polaris_vdaemon_t)
polaris_db_tdlldb_dir_use(polaris_vdaemon_t)
logging_send_syslog_msg(polaris_vdaemon_t)
# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_vdaemon_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vdaemon_t)

polaris_cedge_reset_ns(polaris_vdaemon_t)

# calls ifconfig for tun_0_0 interface
sysnet_domtrans_ifconfig(polaris_vdaemon_t)

# calls dmidecode get system serial number
dmidecode_domtrans(polaris_vdaemon_t)

# /var/run/vdaemon socket and pid
type polaris_vdaemon_var_run_t;
files_pid_file(polaris_vdaemon_var_run_t)
manage_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
manage_sock_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
files_pid_filetrans(polaris_vdaemon_t, polaris_vdaemon_var_run_t, { file sock_file })

polaris_ttm_var_sock_write(polaris_vdaemon_t)

# generate_instance_uuid reads /sys/devices/virtual/dmi/id/product_uuid
dev_read_sysfs(polaris_vdaemon_t)

# vip_util_set_fd_limits calls setrlimit
allow polaris_vdaemon_t self:process { setrlimit setpgid };

allow polaris_vdaemon_t self:capability { dac_override fowner sys_resource };

# vdaemon_init_tunn_intf initilize tun_0_0 in vrf 1
allow polaris_vdaemon_t self:tun_socket create;
corenet_rw_tun_tap_dev(polaris_vdaemon_t)

polaris_persistent_watch(polaris_vdaemon_t)
# from vdaemon_misc.c vdaemon_init_inotify function
polaris_cedge_etc_watch(polaris_vdaemon_t)

# set_netns_with_etc mounts on / and /sys
# set_netns_with_etc opens /etc/netns/1 dir
polaris_namespace_set_netns_with_etc(polaris_vdaemon_t)
# DNS thread complains about tmp_t mounton
# on /sys when switching namespace
gen_require(
    type tmp_t;
')

allow polaris_vdaemon_t tmp_t:dir mounton;

# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_vdaemon_t)
# vip_dns_process_request switches namespace from linux n/w namespace to
# original mount namespace
allow polaris_vdaemon_t self:capability { net_admin sys_chroot };
allow polaris_vdaemon_t self:udp_socket { bind connect create getattr getopt setopt shutdown };

# control linux routes vip_route_delete and vdaemon_setup_system_ip_route
allow polaris_vdaemon_t self:netlink_route_socket { bind create getattr nlmsg_read nlmsg_write };

# binds to vbond udp ports
corenet_udp_bind_generic_node(polaris_vdaemon_t)
corenet_udp_bind_polaris_vbond_port(polaris_vdaemon_t)

# though default ports exist, users can configure the tcp ports in vManage and vSmart
corenet_tcp_connect_all_ports(polaris_vdaemon_t)

# vbond_proc_hello executes VIP_CDB_BACKUP_SCRIPT
polaris_confd_domtrans(polaris_vdaemon_t)
# VIP_CDB_BACKUP_SCRIPT makes use of /etc/confd/confd_ipc_secret
auth_map_passwd(polaris_vdaemon_t)

# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_ncsshd_keys_manage(polaris_vdaemon_t)
# vbond_encode_version opens /etc/version
polaris_confd_etc_read(polaris_vdaemon_t)

# generate_or_parse_uuid() invokes uuid_generate that needs read on
# random-number generator devices (e.g., /dev/random).
dev_read_rand(polaris_vdaemon_t)

# vdaemon_exec_iptables() is invoked by vdaemon all over the place
iptables_domtrans(polaris_vdaemon_t)

allow polaris_vdaemon_t self:capability net_raw;
allow polaris_vdaemon_t self:rawip_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.te
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# March 2017, Victor Kamensky
#
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#
#
## <summary>Polaris fman_rp Policy Rules.</summary>

########################################################################
### <summary>
### Manage mqipc fmrp2fpm shared memory file in /dev/shm directory
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_fmrp2fpm_mqipc_use',
gen_require(''
type polaris_fmrp2fpm_mqipc_t;
')
polaris_mqipc_use($1, polaris_fmrp2fpm_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.if
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dnl
dnl May 2019
dnl
dnl Copyright (c) 2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl confined and permissive domain maps
divert(-1)
define('permissive_domain', `defn(format(``permissive_domain[%s]", `$1`))')
define('permissive_domain_set', `define(format(``permissive_domain[%s]", `$1`, `$2`))')
define('confined_domain', `defn(format(``confined_domain[%s]", `$1`))')
define('confined_domain_set', `define(format(``confined_domain[%s]", `$1`, `$2`))')

dnl
dnl list of all subjects that should be in confined mode
dnl
confined_domain_set(`polaris_iosd_t`, `polaris_iosd_t`)

dnl
dnl list of all subjects that should be placed in permissive mode
dnl
permissive_domain_set(`polaris_nginx_t`, `polaris_nginx_t`)
permissive_domain_set(`polaris_nginx_webui_t`, `polaris_nginx_webui_t`)
permissive_domain_set(`polaris_nginx_webui_install_t`, `polaris_nginx_webui_install_t`)
divert(0)dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/domainmaps.m4
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#
# March 2017, Victor Kamensky
#
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#
/

/tmp/dbgmn_log_svr gen_context(system_u:object_r:polaris_fed_sock_t,s0)
/tmp/fed_post_result -- gen_context(system_u:object_r:polaris_fed_tmp_t,s0)
/flash/shfwd_params.txt gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisrollbacktimer, 1.0);

polaris_process_domain_template(rbtimer)

corecmd_exec_bin(polaris_rbtimer_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_rbtimer_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_rbtimer_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_rbtimer_t)

# work with /tmp files
type polaris_rbtimer_tmp_t;
files_tmp_file(polaris_rbtimer_tmp_t)
manage_dirs_pattern(polaris_rbtimer_t, tmp_t, polaris_rbtimer_tmp_t)
manage_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
manage_fifo_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
files_tmp_filetrans(polaris_rbtimer_t, polaris_rbtimer_tmp_t, { file dir })

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
type polaris_rbtimer_bootflash_t;
polaris_disk_type(polaris_rbtimer_bootflash_t)
polaris_rbtimer_bootflash_manage(polaris_rbtimer_t)

allow polaris_rbtimer_t self:capability sys_resource;
allow polaris_rbtimer_t self:capability dac_override;
allow polaris_rbtimer_t self:process setpgid;

polaris_btrace_data_manage(polaris_rbtimer_t)
polaris_chasfs_manage(polaris_rbtimer_t)
polaris_cpld_read(polaris_rbtimer_t)
polaris_boot_tmp_read(polaris_rbtimer_t)
polaris_read_debug_conf(polaris_rbtimer_t)
polaris_rmonbifo_tmp_read(polaris_rbtimer_t)
polaris_disk_crashinfo_getattr(polaris_rbtimer_t)
polaris_disk_haddr_write_lnk(polaris_rbtimer_t)
polaris_bootflash_manage(polaris_rbtimer_t)

logging_send_syslog_msg(polaris_rbtimer_t)

# uses pidof
domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

# rollbacktimer runs install_engine.sh
polaris_install_engine_domtrans(polaris_rbtimer_t)

polaris_script_errmsg_use(polaris_rbtimer_t)

# watch over /bootflash/.rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_bootflash_t:dir watch;

# watch over /tmp/rp/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_tmp_t:dir watch;

# access to /tmp/ufs//crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_rbtimer_t)
`)

# access to read packages.conf
polaris_read_packages_conf(polaris_rbtimer_t)
# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_rbtimer_t)

# access to "/bootflash/.installer/install_abort_timer_val"
polaris_disk_install_read(polaris_rbtimer_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.te
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#
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#
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#

policy_module(polarisbhytoolsd, 1.0);

polaris_process_domain_template(bhytoolsd)

polaris_btrace_data_manage(polaris_bhytoolsd_t)
polaris_chasfs_manage(polaris_bhytoolsd_t)
polaris_cpld_read(polaris_bhytoolsd_t)

# vmtoolsd transtions from polaris_bhytoolsd_t to vmtools_t -
# bhytoolsd is small wrapper that calls vmtoolsd
vmtools_domtrans(polaris_bhytoolsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarismobilityd, 1.0);

gen_require(
    type polaris_mobilityd_t;
')

polaris_btrace_data_manage(polaris_mobilityd_t)
polaris_crft_data_manage(polaris_mobilityd_t)
polaris_chasfs_manage(polaris_mobilityd_t)
polaris_tdlresolve_read(polaris_mobilityd_t)
polaris_tdlldb_list_dirs(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_lua_read(polaris_mobilityd_t)
polaris_flashlib_read(polaris_mobilityd_t)

polaris_ripc_sman_ui_serv_connect(polaris_mobilityd_t)

polaris_db_tdlldb_dir_use(polaris_mobilityd_t)

# allow to use setrlimit
allow polaris_mobilityd_t self:capability sys_resource;
allow polaris_mobilityd_t self:process setrlimit;
allow polaris_mobilityd_t self:capability dac_override;
allow polaris_mobilityd_t self:udp_socket { create_socket_perms recv_msg send_msg };

logging_send_syslog_msg(polaris_mobilityd_t)

polaris_lfts_dev_use(polaris_mobilityd_t)

polaris_cpld_read(polaris_mobilityd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_mobilityd_t)

polaris_tmp_tdlldb_persist_setup(polaris_mobilityd_t)

polaris_tdlldbPersist_setup(polaris_mobilityd_t)

corenetsudp_bind_generic_node(polaris_mobilityd_t)
corenetsudp_bind_polaris_mobility_ctl_port(polaris_mobilityd_t)
corenetsudp_bind_polaris_mobility_data_port(polaris_mobilityd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.te
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#
# June 2017, Victor Kamensky
#
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#

/usr/binos/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t,s0)

/usr/binos/conf/wui-app-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)
/usr/binos/conf/wui-tipc-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/webui(/.*)? gen_context(system_u:object_r:polaris_webui_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

/tmp/DmiAuth.socket -s gen_context(system_u:object_r:polaris_dmimauthd_tmp_t,s0)
/tmp/netconf-yang-diag(/.*)? gen_context(system_u:object_r:polaris_dmimauthd_tmp_diags_t,s0)
/usr/binos/conf/dmid_diag_logs.sh -- gen_context(system_u:object_r:polaris_dmid_diag_logs_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmauthd.fc
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#

# polarisrrmmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.fc
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#
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#

## <summary>Polaris pttcd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

/usr/bin/os/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Swati Kumari
#
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#

policy_module(polarisptpdrp, 1.0);

generate( 
    type polaris_ptpd_rp_t; 
)
polaris_chasfs_read(polaris_ptpd_rp_t)
polaris_cpld_read(polaris_ptpd_rp_t)
polaris_tdlresolve_read(polaris_ptpd_rp_t)
polaris_lsmmpi_dev_use(polaris_ptpd_rp_t)

# ptpd needs to have open,read,write access with /dev/ds31408
polaris_ds31408_dev_use(polaris_ptpd_rp_t)

# blzi device
polaris_blzi_dev_use(polaris_ptpd_rp_t)

allow polaris_ptpd_rp_t self:capability sys_nice;
allow polaris_ptpd_rp_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/lsn.log -- gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

/tmp/epc_ws(/.*)? gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

# CLI: show platform software wireshark
/usr/bin/os/conf/wireshark_show.sh -- gen_context(system_u:object_r:polaris_wireshark_show_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisgdsrp, 1.0);

gen_require('type polaris_gsd_rp_t;
')

#allow to run  readlink /dev/loop0 & /bin/date
corecmd_exec_bin(polaris_gsd_rp_t)

#run ldd, which in turn exec "ld.so --verify"
libs_exec_lso(polaris_gsd_rp_t)

# allow to run mount in its own domain
mount_domtrans(polaris_gsd_rp_t)
  awk -v what=~^BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_gsd_rp_t)
polaris_btrace_data_manage(polaris_gsd_rp_t)
polaris_chasfs_manage(polaris_gsd_rp_t)
polaris_read_debug_conf(polaris_gsd_rp_t)
polaris_disk_crashinfo_getattr(polaris_gsd_rp_t)
polaris_guestshell_exec_files_exec(polaris_gsd_rp_t)
polaris_guestshell_files_read(polaris_gsd_rp_t)
polaris_ncd_tmp_read(polaris_gsd_rp_t)
polaris_proc_rmonbifo_read(polaris_gsd_rp_t)
polaris_cpld_read(polaris_gsd_rp_t)
polaris_bootflash_read(polaris_gsd_rp_t)
polaris_harddisk_read(polaris_gsd_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_gsd_rp_t)

auth_use_nsswitch(polaris_gsd_rp_t)
polaris_rmonbifo_tmp_read(polaris_gsd_rp_t)

allow polaris_gsd_rp_t self:capability { dac_override sys_resource };
allow polaris_gsd_rp_t self:process setpgid;

type polaris_gsd_rp_tmp_t;
files_tmp_file(polaris_gsd_rp_tmp_t)
manage_dirs_pattern(polaris_gsd_rp_tmp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_files_pattern(polaris_gsd_rp_tmp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_fifo_files_pattern(polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t)

# work with /tmp/guestshell_stk directory
files_tmp_filetrans(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, dir, "guestshell_stk")

gen_require(
  type rsync_t;
')
rsync_entry_domtrans(polaris_gsd_rp_t, rsync_t)
allow rsync_t polaris_gsd_rp_t:process sigchld;

# read /opt/cisco/caf directory
polaris_caf_files_read(polaris_gsd_rp_t)

gen_require(
  type polaris_caf_api_port_t;
  type polaris_caf_exec_t;
')
allow polaris_gsd_rp_t polaris_caf_api_port_t:tcp_socket name_connect;
allow polaris_gsd_rp_t polaris_caf_exec_t:file { getattr open read };
allow polaris_gsd_rp_t tmp_t:dir { create rmdir };

polaris_flashlib_read(polaris_gsd_rp_t)
polaris_flashlib_write(polaris_gsd_rp_t)

# watch over /tmp/udev/etc/udev
polaris_udev_tmp_read(polaris_gsd_rp_t)
polaris_udev_tmp_watch(polaris_gsd_rp_t)

# watch over /bootflash/gs_script
polaris_persistent_watch(polaris_gsd_rp_t)

#allow iox_ha_utils.sh to read /etc/docker/daemon.json.
gen_require(
  type container_config_t;
')


read_files_pattern(polaris_gsd_rp_t, container_config_t, container_config_t)

# allow guestshell_ha.sh to log messages
logging_send_syslog_msg(polaris_gsd_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.te
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#

### <summary>Polaris Rmonbifo Policy Rules.</summary>

########################################################################
# Polaris Rmonbifo Driver policy
########################################################################

########################################################################
### <summary>
###  Read /proc/rmbonbifo files.
### </summary>
### <param name="domain">
###   Domain allowed access.
### </param>
#
interface('polaris_proc_rmonbifo_read',
   gen_require(''
   type polaris_proc_rmonbifo_t;
   ')
   read_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
   list_dirs_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
   ')

########################################################################
### <summary>
###  Getattr of /proc/rmbonbifo files.
### </summary>
### <param name="domain">
###   Domain allowed access.
### </summary>
## <summary>
##      Read /tmp/sw/boot/rmonbifo files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_rmonbifo_tmp_read',
# gen_require(
# type polaris_rmonbifo_tmp_t;
# type polaris_boot_tmp_t;
#    type polaris_rmonbifo_tmp_t;
#      type polaris_boot_tmp_t;
#      )
#   read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
#   # /tmp/sw/boot/rmonbifo dir is inside of polaris_boot_tmp_t dir
#   search_dirs_pattern($1, polaris_boot_tmp_t, polaris_rmonbifo_tmp_t)
# )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.if
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#
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#
/usr/binos/conf/ncd.sh -- gen_context(system_u:object_r:polaris_ncd_exec_t,s0)
/etc/conf/unifiedfs/mount_data  gen_context(system_u:object_r:polaris_ufs_helper_exec_t,s0)

/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_console_attach_exec_t,s0)
/usr/binos/conf/unifiedfs/unifiedfs_helper.sh -- gen_context(system_u:object_r:polaris_ufs_helper_exec_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.fc
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#
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#
## <summary>Polaris iosd Policy Rules.</summary>

################################
## <summary>
##      Make the specified domain able to work with /tmp/restconf
## </summary>
## <param name="type">
##      Domain allowed access.
## </param>
#
# interface('polaris_restconf_tmp_use',
#   gen_require(
#       type polaris_restconf_tmp_t;
#   )
#
# manage_files_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
# manage_dirs_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
#
################################
## <summary>
##      Create domain for IOSD Polaris processes. Note
## depending on policy build setting it could be confined or
## not confined
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <param name="entry_point">
##      Type of the program to be used as an entry point to this domain.
## </param>
interface('polaris_iosd_domain',
    polaris_process_domain_confined($1, $2)
)

polaris_iosd_maybe_unconfined($1)

########################################
## </summary>
## <param name="type">
##      Domain allowed access.
## </param>
## </summary>
## <summary>
##      Make the specified domain able to work with iosd2iox files
## </summary>
## <param name="type">
##      Domain allowed access.
## </param>
#
interface('polaris_iosd2iox_tmp_manage',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    ')
)

manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)

########################################
##<summary>
##      Make the specified domain able to read iosd2iox files
## </summary>
##<param name="type">
##      Domain allowed access.
## </param>
#
interface('polaris_iosd2iox_tmp_read',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    ')
)

read_files_pattern($1,polaris_iosd2iox_tmp_t,polaris_iosd2iox_tmp_t)

########################################
## <summary>
## Send messages to iosd unix datagram sockets.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface('polaris_iosd_dgram_send',
    gen_require(''
        type polaris_iosd_t;
    ')
)

allow $1 polaris_iosd_t:unix_dgram_socket sendto;
')

########################################
## <summary>
##      Make the specified domain to read /tmp/rp/.iosp_dmiauthd
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dmiauthd_token_read',
    gen_require(''
        type polaris_dmiauthd_token_t;
    ')
)

read_files_pattern($1, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)
')

########################################
## <summary>
##      Make the specified domain to read /tmp/rp/.iosp_gnmib
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_gnmib_token_read',
    gen_require(''
        type polaris_gnmib_token_t;
    ')
)

manage_files_pattern($1, polaris_gnmib_token_t, polaris_gnmib_token_t)
### <summary>
Make the specified domain able to work with files
with polaris_iosd_tmp_files_t
</summary>

```c
#interface('polaris_iosd_tmp_file_use',
  gen_require(
    type polaris_iosd_tmp_files_t;
  )

  manage_files_pattern($1, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
  allow $1 polaris_iosd_tmp_files_t:sock_file { manage_sock_file_perms};
)
```

### <summary>
Manage /bootflash/geodb/ files
</summary>

```c
#interface('polaris_geodb_files_manage',
  gen_require(
    type polaris_geodb_files_t;
  )

  manage_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
  manage_dirs_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
  manage_lnk_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
)
```

### <summary>
Allow the specified domain to read /boot/vcpu_template.txt
or /csl_p_0/vcpu_template.txt
</summary>
### <param name="type">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_iosd_vcpu_read',
    gen_require(
        type polaris_iosd_vcpu_t;
        type polaris_disk_varied_t;
        type polaris_disk_csl_p_t;
    )
)

read_files_pattern($1, { polaris_disk_varied_t polaris_disk_csl_p_t }, polaris_iosd_vcpu_t)
')

#############################################################################
### <summary>
###      Allow the specified domain to read /tmp/usb-disable
### </summary>
### <param name="type">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_iosd_usb_disable_tmp_manage',
    gen_require(
        type polaris_iosd_usb_disable_tmp_t;
    )
)

manage_files_pattern($1, polaris_iosd_usb_disable_tmp_t, polaris_iosd_usb_disable_tmp_t)
files_tmp_filetrans($1, polaris_iosd_usb_disable_tmp_t, file, "usb-disable")
')

#############################################################################
### <summary>
###      Allow the specified domain to access /bootflash/EFI
### </summary>
### <param name="type">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_efi_files_list_dirs',
    gen_require(
        type polaris_efi_files_t;
list_dirs_pattern($1, polaris_efi_files_t, polaris_efi_files_t)

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#

# polarissmd file contexts place holder

# dc_profile_dir
/mnt/sd3/user/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/flash1/user/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/bootflash/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.fc
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# polarismqipc file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.fc
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#

## <summary>Polaris iomd Policy Rules.</summary>
# <summary>
# Work (read, write, ioctl) with /dev/ngio[0-9+] devices
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
# interface('polaris_ngio_dev_use',
# gen_require(
#     type device_t;
#     type polaris_ngio_device_t;
# )
#     write_chr_files_pattern($1, device_t, polaris_ngio_device_t)
#     read_chr_files_pattern($1, device_t, polaris_ngio_device_t)
# )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.if
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#
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#

policy_module(polarisrepm, 1.0);

gen_require(
    type polaris_repm_t;
 )

polaris_btrace_data_manage(polaris_repm_t)
polaris_crft_data_manage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_tdldb_list_dirs(polaris_repm_t)
polaris_cp1d_read(polaris_repm_t)
polaris_lua_read(polaris_repm_t)
polaris_flashlib_read(polaris_repm_t)
polaris_ripc_sman_ui_serv_connect(polaris_repm_t)
polaris_db_tdldb_dir_use(polaris_repm_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_repm_t)

allow polaris_repm_t self:capability { sys_resource dac_override };
allow polaris_repm_t self:process setrlimit;

# temporary files created for repm in /tmp/replication
type polaris_repm_tmp_t;
files_tmp_file(polaris_repm_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_repm_tmp_t, dir, "replication")
manage_files_pattern(polaris_repm_t, polaris_repm_tmp_t, polaris_repm_tmp_t)

polaris_dyncfg_tmp_read(polaris_repm_t)

polaris_tdldbpersist_setup(polaris_repm_t)

polaris_tmp_tdldbpersist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq-local_rp_1_0
type polaris_repm_local_rp_mqipc_t;
polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_1_0)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_0_0)

# repm peer mqipc queues under /dev/shm/repm_peer_mq folder
type polaris_repm_peer_mqipc_t;
polaris_mqipc_type(polaris_repm_peer_mqipc_t)
polaris_mqipc_create_name_dir(polaris_repm_t, polaris_repm_peer_mqipc_t, repm_peer_mq)

# repm invokes installer_api_* api's which need access to /bootflash/installer/install_issu_state
polaris_install_disk_read(polaris_repm_t)

ifdef(`petra_platform',
#allow access to polaris_cm_rp sem for chasfs
polaris_cm_rp_sem_use(polaris_repm_t)
#allow access to /flash12/moncfg/cfg.dat for config
polaris_swipedrive_file_manage(polaris_repm_t)
')

# execute /bin/tar
corecmd_exec_bin(polaris_repm_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_repm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.te
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#  
### <summary>Polaris NGWC Platform Policy Rules.</summary>

#######################################    
### <summary>    
### Manage ngwc shared memory /dev/shm/ngwc_shm.   
### </summary>   
### <param name="domain">   
### <summary>   
### Domain allowed access.   
### </summary>   
### </param>   
#  
interface('polaris_ngwc_shm_manage',
    gen_require('    
        type tmpfs_t;    
        type polaris_ngwc_shm_t;    
    ')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_shm_t)
    allow $1 polaris_ngwc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_shm_t, file, "ngwc_shm")
')

#######################################   
### <summary>   
### Manage ngwc shared memory /dev/shm/ngwc_scc_shm.   
### </summary>   
### <param name="domain">   
### <summary>   
### Domain allowed access.   
### </summary>   
### </param>   
#  
interface('polaris_ngwc_scc_shm_manage',

gen_require(
    type tmpfs_t;
    type polaris_ngwc_scc_shm_t;
')
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t)
allow $1 polaris_ngwc_scc_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t, file, "ngwc_scc_shm")
')

###############################
## <summary>
##      Manage ngwc shared memory /dev/shm/iomd_to_fed_ptp_offload.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ngwc_itfpo_manage',`
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_itfpo_t;
    ')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t)
    allow $1 polaris_ngwc_itfpo_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t, file, "iomd_to_fed_ptp_offload")
')

###############################
## <summary>
##      Manage ngwc sdm shared memory /dev/shm/sdm.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sdm_shm_manage',`
    gen_require(
        type tmpfs_t;
        type polaris_sdm_shm_t;
    ')}
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_sdm_shm_t)
filetrans_pattern($1, tmpfs_t, polaris_sdm_shm_t, file, "sdm")
allow $1 polaris_sdm_shm_t:file map;
')

##############################################################################
# MMAP Driver for mapping ASIC Memory space
##############################################################################

####################################
## <summary>
##      Work (read, write, ioctl) with /dev/chdrvmmap
## </summary>

## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_chdrvmmap_dev_use',
  gen_require(
    type device_t;
    type polaris_chdrvmmap_device_t;
  )
    read_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
    write_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
    allow $1 polaris_chdrvmmap_device_t:chr_file map;
')

##############################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/gettysburg_dev1
## </summary>

## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_gettysburg_fpga_dev_use',
  gen_require(
    type device_t;
    type polaris_gettysburg_fpga_device_t;
  )
    write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
    mmap_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
  )
### <summary>
### Work (read, write, ioctl) with /dev/cisco/dplriomem
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_dplr_iomem_mmapdrv_dev_use`,`

```c

type device_t;

type polaris_dplr_iomem_mmapdrv_device_t;

write_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
allow $1 polaris_dplr_iomem_mmapdrv_device_t:chr_file map;
```

### <summary>
### Allow access to semaphore of quake flashlib. Pure hack
### semaphore got created by dyncfg accidently, need to change to
### POSIX semaphore code ASAP.
### LOOK AT ME
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_quake_flashlib_sem_use`,`

```c

type polaris_dyncfg_t;

allow $1 polaris_dyncfg_t:sem rw_sem_perms;
```

### <summary>
### Manage quake i2c semaphores /dev/shm/sem.i2c_sem00N
### and work with corresponding i2c devices (/dev/i2c-XXX)
### </summary>
### <param name="domain">
###
## Domain allowed access.

```c
interface('polaris_quake_i2c_manage',
    gen_require(''
        type tmpfs_t;
        type polaris_quake_i2c_t;
    ')
    manage_files_pattern($1, tmpfs_t, polaris_quake_i2c_t)
    polaris_i2c_use($1)
)
```

########################################

## Allow caller to read or write the exiting_bays file

```c
interface('polaris_rw_exiting_bays',
    gen_require(''
        type polaris_proc_exiting_bays_t;
        type proc_t;
    ')
    rw_files_pattern($1, polaris_proc_exiting_bays_t, polaris_proc_exiting_bays_t)
# FIXME/TODO:
# The kernel does not reliably create /proc/exiting_bays on all platforms
# The following lines should be removed when CSCvv27097 is addressed
allow $1 polaris_proc_exiting_bays_t:file create;
allow $1 proc_t:file create;
allow $1 proc_t:dir { add_name write };
'
)
```

########################################

## Allow caller to create open write /tmp/fpga_upgrade

```c
interface('polaris_fpga_upgrade_tmp_use',
```
gen_require(
    type polaris_fpga_upgrade_tmp_t;
)
allow $1 polaris_fpga_upgrade_tmp_t:file { create open write }
)

########################################
## <summary>
## Execute a domain transition to run cat9k_ssd_unmount.sh
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_ssd_unmount_domtrans',
    gen_require(
        type polaris_ssd_unmount_t, polaris_ssd_unmount_exec_t;
    )
    domtrans_pattern($1, polaris_ssd_unmount_exec_t, polaris_ssd_unmount_t)
)

########################################
## <summary>
## Read lnk_file /ucode0, polaris_disk_ucode0_t.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_disk_ucode0_read_lnk',
    gen_require(
        type polaris_disk_ucode0_t;
    )
    read_lnk_files_pattern($1, polaris_disk_ucode0_exec_t, polaris_disk_ucode0_t)
)

########################################
## <summary>
## Work (read, write, ioctl) with /dev/cisco/fpgaiomem
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
### <summary>
## Read Write access to /bootflash/nplusm-power
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>

```c
interface('polaris_nplusm_power_manage',
gen_require(
    type polaris_nplusm_power_file_t;
    type polaris_disk_bootflash_t;
)
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_nplusm_power_file_t, file, "nplusm-power")
allow $1 polaris_nplusm_power_file_t:file { write create read open getattr unlink };
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.if
No license file was found, but licenses were detected in source scan.

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#
/usr/binos/conf/boothelper_evt.sh -- gen_context(system_u:object_r:polaris_boothelper_evt_exec_t,s0)
/tmp/udev(/.*)?           gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)
/tmp/rommon_upgrade_ngwc(/.*)?      gen_context(system_u:object_r:polaris_boothelper_tmp_t,s0)

Found in path(s):
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#

## <summary>Polaris ezman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.if
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dnl
define('polaris_lipc_service_server','
define('polaris_lipc_service_client','

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_fc.m4
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.fc
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#

/usr/binos/conf/install_issu_monitor.sh -- gen_context(system_u:object_r:polaris_issu_monitor_exec_t,s0)
/tmp/rp/issu_mon_dir -d gen_context(system_u:object_r:polaris_issu_monitor_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.fc
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#
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#

### <summary>Polaris fman_cc Policy Rules.</summary>

Found in path(s):
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#

### <summary>Polaris smand Policy Rules.</summary>

#####################################################
### Allow domain to be started by smand with
### transition into specific service domain.
###
### <param name="domain">
### Type to be used to run utility.
###
### <param>
### <param name="entry_point">
### Type of the program to be used as an entry point to this domain.
###
### interface('polaris_smand_domain',
interface('polaris_smand_domain',
    gen_require(
        type polaris_smand_t;
        ')}
domtrans_pattern(polaris_smand_t, $2, $1)
')

########################################
## <summary>
## Write into fifo file created by smand, typical case when
## smand starts script under popen.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_smand_use_fifo',`
  gen_require(`
  type polaris_smand_t;
  ')

  write_fifo_files_pattern($1, polaris_smand_t, polaris_smand_t)
  ')

########################################
## <summary>
## Read access to CRDU fifo file created by smand
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_smand_crdu_pipe_read',`
  gen_require(`
  type polaris_crdu_pipe_tmp_t;
  ')

  read_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
  ')

########################################
## <summary>
## Manage CRDU fifo file created by smand
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface(`polaris_smend_crdu_pipe_manage',``
gen_require(`
    type polaris_crdu_pipe_tmp_t;
')

manage_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
')

#########################################################################
## <summary>
## Write to polaris_sman_bshell_serv_lipc_t
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to connect and write into this lipc file.
## </summary>
## </param>
#
interface(`polaris_sman_bshell_serv_lipc_write',``
gen_require(`
    type polaris_sman_bshell_serv_lipc_t;
    type polaris_smend_t;
')
polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smend_t)
')

#########################################################################
## Manage /tmp/show_ports_tmp
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to manage tmp files.
## </summary>
## </param>
## <rolecap/>
interface(`polaris_trans_ports_tmpManage',``
gen_require(`
    type polaris_trans_stats_tmp_t;
')
manage_files_pattern($1, polaris_trans_ports_tmp_t, polaris_trans_ports_tmp_t)
')
## <summary>
##   create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to manage tmp files.
##      </summary>
## </param>
## <rolecap/>

interface('polaris_trans_stats_tmp_manage',
    gen_require(''
        type polaris_trans_stats_tmp_t;
    ')
    manage_files_pattern($1, polaris_trans_stats_tmp_t, polaris_trans_stats_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.if
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#

/usr/cpp/bin/cpp_cdm_svr -- gen_context(system_u:object_r:polaris_cpp_cdm_exec_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.fc
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#

## <summary>Polaris Flashlib Policy Rules.</summary>

####################################################################
# Flashlib policy (infra/flashlib)
####################################################################
## Read Polaris /tmp/.flashlock file
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_flashlib_lock',
  gen_require(
    type tmp_t;
    type polaris_flashlib_lock_t;
  ')

manage_files_pattern($1, tmp_t, polaris_flashlib_lock_t)
allow $1 self:capability dac_override;

ifdef('quake_platform',
  polaris_quake_flashlib_sem_use($1)
')
# access of .flashlock on ultra
ifdef('vxe_family',
  allow $1 self:capability dac_override;
')
')
)

####################################################
## Write Polaris /tmp/flashdev.log file
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_flashlib_log',
  gen_require(
    type tmp_t;
    type polaris_flashlib_log_t;
  ')

manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
')

####################################################
## Read partition disk device that contains rommon variables.
## C8KV reads object store and reads grub files in BIOS and EFI partitions.

## <summary>
## Domain allowed access.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

```c
interface('polaris_flashlib_read',
    gen_require(
        type device_t;
        type polaris_flashlib_device_t;
    )
)
polaris_flashlib_lock($1)
polaris_flashlib_log($1)
read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
read_chr_files_pattern($1, device_t, polaris_flashlib_device_t)
ifdef('vxe_family',
    polaris_vxeinstall_info_read($1)
polaris_grub_info_read($1)
')
ifdef('vwlc_platform',
    polaris_vwlcinstall_info_read($1)
polaris_vwlc_grub_info_read($1)
')

# processes that use tdllib/DB will access romvar
# via flashlib mcp_getmonvar API which read /objstore.
optional_policy('polaris_disk_objstore_read($1)
')
polaris_flash_shm_manage($1)
)
```

```

## <summary>
## Write partition disk device that contains rommon variables.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

```c
interface('polaris_flashlib_write',
    gen_require(
        type device_t;
        type polaris_flashlib_device_t;
    )
)```
polaris_flashlib_lock($1)
write_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
polaris_flash_shm_manage($1)

此事

Manage ngwc shared memory /dev/shm/flash shm.

Domain allowed access.

interface('polaris_flash_shm_manage',

gen_require('type tmpfs_t;
type polaris_flash shm_t;
')

fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris flash shm_t)
allow $1 polaris_flash shm t::file map;
')

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Polaris LUA Policy Rules.

Lua policy

Read Polaris lua files (/lua)

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## <param name="domain">
##
## Domain allowed access.
##
## </param>
#
interface('polaris_lua_read',
gen_require(
type polaris_lua_file_t;
')

allow $1 polaris_lua_file_t:file read_file_perms;
allow $1 polaris_lua_file_t:dir { read_file_perms search_dir_perms };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.if
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#

## <summary>Polaris tamd_rp Policy Rules.</summary>

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## <summary>Polaris polarisiptbl Policy Rules.</summary>

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#

# autopolarisplatformipcbase file contexts place holder

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#
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#

policy_module(polarisdmimipportsfetch, 1.0);

gen_require(
    type polaris_dmi_ports_fetch_t;
')
polaris_chasfs_manage(polaris_dmi_ports_fetch_t)
polaris_tdlresolve_read(polaris_dmi_ports_fetch_t)
polaris_cpld_read(polaris_dmi_ports_fetch_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmimipportsfetch.te
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#
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#

policy_module(polarisngwcfeddebug, 1.0);

gen_require(
    type polaris_ngwc_fed_debug_mgr_t;
')
polaris_bootflash_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_btrace_data_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_cpld_read(polaris_ngwc_fed_debug_mgr_t)
polaris_flashlib_read(polaris_ngwc_fed_debug_mgr_t)
polaris_chasfs_read(polaris_ngwc_fed_debug_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_fed_debug_mgr_t)

polaris_disk_bootflash_read_lnk(polaris_ngwc_fed_debug_mgr_t)
polaris_dmammap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_chdrvmmap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_debug_mgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwc_fed_debug_mgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwc_fed_debug_mgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwc_fed_debug_mgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwc_fed_debug_mgr_t)

auth_use_nsswitch(polaris_ngwc_fed_debug_mgr_t)

# lspci needs sysfs access
dev_list_sysfs(polaris_ngwc_fed_debug_mgr_t)
dev_read_sysfs(polaris_ngwc_fed_debug_mgr_t)

# dope.py /tmp/idope_svr,/tmp/shfwd_svr  socket files
type polaris_fed_debug_sock_t;
files_tmp_file(polaris_fed_debug_sock_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require(
    type tmp_t;
    )
manage_sock_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_sock_t)

# allow show-forward to use following temp files in /tmp dir
type polaris_fed_debug_tmp_t;
files_tmp_file(polaris_fed_debug_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "MemDumpElam.sh")

gen_require(
    type tmp_t;
    )
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, { tmp_t polaris_fed_debug_tmp_t}, polaris_fed_debug_tmp_t)
# talk to fed over unix sockets
polaris_fed_sock_write(polaris_ngwc_fed_debug_mgr_t)

# /dcmlog.txt
type polaris_fed_debug_dcmlog_t;
files_type(polaris_fed_debug_dcmlog_t)
gen_require(
    type root_t;
')
filetrans_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t)

# dope.py listens on port 12255
corenent_tcp_bind_generic_node(polaris_ngwc_fed_debug_mgr_t)
allow polaris_ngwc_fed_debug_mgr_t self:tcp_socket { getattr setopt ioctl getopt bind create listen accept connect read write };
corenent_tcp_bind_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)
corenent_tcp_connect_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)

# dope.py listens on port 5389 for shfwd commands
corenent_tcp_bind_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_debug_mgr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is committed.
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')

# /tmp/asic_config.pickle file access
type polaris_fed_debug_asic_config_t;
files_tmp_file(polaris_fed_debug_asic_config_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
gen_require(
    type tmp_t;
')
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_asic_config_t)

# dope.py invokes scapy.py for DP trace which needs to create socket to seek
# interface info via ioctl ifreq
allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { ioctl };

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# /tmp/rdope_ffi handle directory where libffi will create file with execute
# mapping. Files system should be executable and /tmp so far is. Note TMPDIR
# environment variable is the first choice where to create libffi executable
# mapped files.

type polaris_fed_debug_ffi_t;
files_tmp_file(polaris_fed_debug_ffi_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, dir, "rdope_ffi")
gen_require("'
   type tmp_t;
')
manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, polaris_fed_debug_ffi_t)
allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map };

# allow to read /proc/mtd called from mcp_getmonvar
kernel_read_system_state(polaris_ngwc_fed_debug_mgr_t)

polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;

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  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.te

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dnl Process Names Map
define('process_map', `defn(format(`process_map[%s]', `$1'))')
define('process_map_set', `define(format(`process_map[%s]', `$1'), `$2'))'

dnl Process Names and Labels
define('process_short_name', `patsubst($1, `^BPROC_\(', `')
#define('process_default_stem', `translit(process_short_name($1), `A-Z', `a-z')')
#define('process_stem', `ifelse(process_map(process_short_name($1)), `', process_default_stem($1), process_map(process_short_name($1))))'
#define('process_label', `format(`polaris_%s_t', process_stem($1))')
#define('process_exec_label', `format(`polaris_%s_exec_t', process_stem($1))')

dnl Process Type Map: track that type declations unique
define('process_type_map', `defn(format(`process_type_map[%s]', `$1'))')
define('process_type_map_set', `define(format(`process_type_map[%s]', `$1'), `$2'))'

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process.m4

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dnl

process_map_set(AUTO_UPGRADE_CLIENT_RP, autoupgrade)
process_map_set( dnl
process_map_set(BSM_RP, bsm)
process_map_set(BTM_CC, btman)
process_map_set(BTM_FP, btman)
process_map_set(BTM_RP, btman)
process_map_set(BTM_BP, btman)
process_map_set(CCD_RP, caf)
process_map_set(DMI_CONF_F, confd)
process_map_set(DMI_PTTCD, pttcd)
process_map_set(SDWAN_CONF_F, confd)
process_map_set( dnl
process_map_set(EMD_CC, emd)
process_map_set(EMD_FP, emd)
process_map_set(FCD_RP, flashcheck)
process_map_set(FM_FP, fman_fp)
process_map_set(FM_CC, fman_cc)
process_map_set(FM_RP, fman_rp)
process_map_set(HM_CC, hm)
process_map_set(HM_FP, hm)
process_map_set(HM_RP, hm)
process_map_set(IOMD_CC, iomd)
process_map_set(IOSD_CC, iosd)
process_map_set(IOSD_BP, iosd)
process_map_set( dnl
process_map_set(IOXM_RP, ioxman)
process_map_set(issu_stack)
process_map_set(LM_RP, lm)
process_map_set(MAINT_RP, periodic)
process_map_set(PLOGD_CC, plogd)
process_map_set(PLOGD_FP, plogd)
process_map_set(PLOGD_RP, plogd)
process_map_set( dnl
process_map_set(REPM_RP, repm)
process_map_set(SERVICE_MGR_RP, service_mgr)
process_map_set(SERVICE_MGR_FP, service_mgr)
process_map_set(SM, smand)
process_map_set(SORT_RP, sort_files)
process_map_set(VMAN_RP, vman)
process_map_set( dnl
process_map_set(POLJVM, jvm)
process_map_set(CLUSTERMGR, clustermgr)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/processmap.m4
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divert(-1)

include(‘polaris_process.m4’)

include(‘polaris_database_db.m4’)
include(‘polaris_database_db_if.m4’)

include(‘polaris_max_scope.m4’)

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform DB Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_if.m4
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl VXE Platform Max Bay Limits
max_bay_map_set(‘rp’, ‘per_bay’, 0)
max_bay_map_set(‘cc’, ‘per_bay’, 0)
max_bay_map_set(‘fp’, ‘per_bay’, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vxemaps.m4
No license file was found, but licenses were detected in source scan.

#
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

# January 2021, Gabriel Lee, Shawn Liu
#
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#

/ezManage_v1/ezManage_sms_handler.py -- gen_context(system_u:object_r:polaris_ezmanage_exec_t,s0)

/ezManage_v1(.*?)/ -- gen_context(system_u:object_r:polaris_ezmanage_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.fc
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
#
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#

## <summary>Polaris dmi_vtyserverutild Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmi_vtyserverutild.if
No license file was found, but licenses were detected in source scan.

# # August 2017, Victor Kamensky
#
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#

# polarisbsm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.fc
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
#
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#

## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>
### <summary>
### Work with /bootflash/sdavc
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface(`polaris_sdavc_proxy_manage',`
    gen_require(`
        type polaris_sdavc_proxy_files_t;
    `)
    manage_files_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    manage_dirs_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/bin/cman_fp_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_us_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_vwl -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_vwl_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_sumatra_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/conf/mcp_pcie_status_cmd.sh   -- gen_context(system_u:object_r:polaris_pcie_status_cmd_exec_t,s0)
/dev/hkp -c gen_context(system_u:object_r:polaris_hkp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaris_cmfp.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Manu Roy
#
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#

# /bootflash labels
/bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub  gen_context(system_u:object_r:sshds_key_t,s0)
/bootflash/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshds_key_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash is symbolic link /flash10/USER
/f flash  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /flash1
/f flash1(/.*)?  gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/f flash1/CRASH(/.*)?  gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/f flash1/CRASH/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/f flash7(/.*)?  gen_context(system_u:object_r:polaris_disk_license_t,s0)

#sdflash
/dev/mmcbklp1p1 -b  gen_context(system_u:object_r:polaris_iots_swipedrive_device_t,s0)
/dev/sdflash  gen_context(system_u:object_r:polaris_iots_swipedrive_file_t,s0)

#usb device
/dev/sda1 -b  gen_context(system_u:object_r:polaris_iots_swipedrive_device_t,s0)

#DMA ASIC driver
/dev/mvDmaDrv  gen_context(system_u:object_r:polaris_iots_mvDmaDrv_device_t,s0)
/dev/mvIntDrv  gen_context(system_u:object_r:polaris_iots_mvIntDrv_device_t,s0)

#/crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo  gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

#dev
/dev/petra-fpga -c  gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-zynq-ps-gpio -c  gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-gpio-pc3 -c  gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
#Line card fpga driver for mmap
/dev/petra-lc-fpga -c  gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
#memory devices
/dev/tm -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/dev/hcam -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)

#vlan-virtual ethernet
/dev/petra-krport -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/tmp/udev/etc/udev/sdflash/udev-info gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# hellcat
/dev/spidev0.0 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)
/dev/spidev0.1 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwcfed, 1.0);

gen_require(
   '    type polaris_ngwcFed_t;
   ')

polaris_btrace_data_manage(polarisNgwcFed_t)
polaris_chasfs_manage(polarisNgwcFed_t)
polaris_tdlresolve_read(polarisNgwcFed_t)
polaris_tdlldb_list_dirs(polarisNgwcFed_t)
polaris_lua_read(polarisNgwcFed_t)
polaris_flashlib_read(polarisNgwcFed_t)
polaris_chasync_files_manage(polarisNgwcFed_t)

# LOOK AT ME: system() call restriction remove after
# CSCvn19282 is fixed using CSCvn19287.
#
# fed executes cp_trace_request.sh when a sv stack split occurs.
# cp_trace_request.sh does source of pglobals.sh which requires the
# access of /crashinfo.
polaris_disk_crashinfo_getattr(polarisNgwcFed_t)
polaris_ripc_sman_ui_serv_connect(polarisNgwcFed_t)
polaris_db_tldlb_dir_use(polaris_ngwc_fed_t)

corecmd_exec_bin(polaris_ngwc_fed_t)
corecmd_exec_shell(polaris_ngwc_fed_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_fed_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_fed_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_ngwc_fed_t)

polaris_obfl_data_manage(polaris_ngwc_fed_t)
polaris_lsmpi_dev_use(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:capability { sys_rawio dac_override ipc_owner sys_nice ipc_lock };
allow polaris_ngwc_fed_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_ngwc_fed_t)

optional_policy(
  polaris_ngwc_shm_manage(polaris_ngwc_fed_t)
  ')

optional_policy(
  polaris_ngwc_scc_shm_manage(polaris_ngwc_fed_t)
  ')

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_ngwc_fed_t)
polaris_cpp_tmp_files_use(polaris_ngwc_fed_t)

optional_policy(
  # /dev/dplr_intrpt usage
  polaris_dplr_dev_use(polaris_ngwc_fed_t)
  '
  
  # /dev/dmammap usage
  polaris_dmammap_dev_use(polaris_ngwc_fed_t)
  '
  
  # /dev/remap_mem0 usage
  polaris_remap_mem_dev_use(polaris_ngwc_fed_t)
  '
  
  # /dev/cli2xcvr_pipe and /dev/xcvr2cli_pipe
  type polaris_fed_xcvr_pipe_t;
files_type(polaris_fed_xcvr_pipe_t)
dev_associate(polaris_fed_xcvr_pipe_t)
gen_require(
    type device_t;
')
filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "cli2xcvr_pipe")
filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "xcvr2cli_pipe")
manage_fifo_files_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t)
polaris_disk_bootflash_search(polaris_ngwc_fed_t)
allow polaris_ngwc_fed_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_ngwc_fed_t)

# read /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ngwc_fed_t)

# bind to shfwd port
corenets_udp_bind_polaris_ngwc_fed_shfwd_port(polaris_ngwc_fed_t)

# connect to shfwd port
corenets_tcp_connect_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_t)

# creates and write /flash/shfwd_params.txt file
polaris_bootflash_manage(polaris_ngwc_fed_t)

# use polaris_ngwc_fed_t as syslog_client_type
logging_send_syslog_msg(polaris_ngwc_fed_t)

# bind to dbgmn port

corenets_udp_bind_polaris_ngwc_fed_dbgmn_port(polaris_ngwc_fed_t)

corenets_udp_bind_generic_node(polaris_ngwc_fed_t)
allow polaris_ngwc_fed_t self:udp_socket { bind create getopt }

optional_policy(
    # on macallan cman_fp needs access to /dev/cisco/dplriomem
    # for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_t);
')

# On Macallan as part of doppler sdkasic_init(), a
# rw call is made to /dev/cpld
polaris_cpld_dev_use(polaris_ngwc_fed_t)
polaris_cpld_read(polaris_ngwc_fed_t)
# ptp_init_systemclock() called during fed process init writes
# /sys/devices/platform/cpld/reg_doppe_1588_sync
polaris_cpld_write(polaris_ngwc_fed_t)

optional_policy(
    # In Macallan cards which use Doppler ASIC,
    # ngmod_doppler_mmap() api is called to get hold of
    # MMapped Asic address. As part of the operation it uses
    # /dev/chdrvvmmap device.
    polaris_chdrvvmmap_dev_use(polaris_ngwc_fed_t)
)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvk00737 is fixed using CSCvk00741
ifdef('nyquist_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm34589 is fixed using CSCvm34617
ifdef('starfleet_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef('quake_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
)

ifdef('sumatra_platform',
    # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_ngwc_fed_t)
polaris_sumatra_doppler_dev_use(polaris_ngwc_fed_t)
)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn08008 is fixed using CSCvn08019.
# FED accesses raw memory (/dev/mem) for sending/receiving OOB
# traffic on an FSS interface.
ifdef('passport_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
)

#Entropy number is read from ACT2 and stored in /tmp/hw_entropy
#Allow sesa library read from /tmp/hw_entropy to update random
#number seed.
polaris_hw_entropy_read(polaris_ngwc_fed_t)

# fed is server for /tmp/dbgmn_log_svr socket file
type polaris_fed_sock_t;
files_tmp_file(polaris_fed_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_sock_t, sock_file, "dbgmn_log_svr")

gen_require(
    type tmp_t;
)
manage_sock_files_pattern(polaris_ngwc_fed_t, tmp_t, polaris_fed_sock_t)

optional_policy(
    # talk to rdope.sh over unix sockets
    polaris_fed_debug_sock_write(polaris_ngwc_fed_t)
)

# /dev/shm/sdm access
optional_policy(
    polaris_sdm_shm_manage(polaris_ngwc_fed_t)
)

# creates few files under /tmp/installer (e.g like
# /tmp/installer/phy_shannon_ver_1) to indicate current h/w conditions
polaris_install_tmp_manage(polaris_ngwc_fed_t)

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_ngwc_fed_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_ngwc_fed_t)
)

# work with /tmp files (/tmp/fed_post_results)
type polaris_fed_tmp_t;
files_tmp_file(polaris_fed_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, file, "fed_post_result")
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, dir, "test_mrvlphy")
manage_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_dirs_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_fifo_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
polaris_cm_rp_tmp_manage(polaris_ngwc_fed_t)

# Allow write to flash. Needed for template support.
polaris_flashlib_write(polaris_ngwc_fed_t)

# CSCvo78054 will be used to fix fed policies on crankshaft properly.
# Below policy is just to unblock Nightwatch boot issue on ISR in
# enforcing mode.
ifdef('crankshaft_family',"
# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_ngwc_fed_t)

#ISR Nightwatch module creates softlink /flash -> /bootflash
gen_require('
    type root_t;
')
filetrans_pattern(polaris_ngwc_fed_t, root_t, polaris_disk_bootflash_t, lnk_file, "flash")

')

optional_policy('
polaris_epc_ws_liaison_tmp_read(polaris_ngwc_fed_t)
')

# ngwc-fed manage /tmp/epc_ws/fed_to_wif_pipe file fifo_file.
optional_policy('
polaris_epc_ws_liaison_fifo_manage(polaris_ngwc_fed_t)
')

optional_policy('
polaris_ngwc_itfpo_manage(polaris_ngwc_fed_t)
')

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy('
polaris_serdes_asic_key_tmp_manage(polaris_ngwc_fed_t)
')

# ngwc-fed creates /tmp/epc_ws dir
optional_policy('
polaris_epc_ws_liaison_tmp_file(polaris_ngwc_fed_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
# <summary>
# Manage cfg files (under /tmp/sw/cfg)
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
# <rolebase/>
#
interface(polaris_cfg_data_manage,`

gen_require(`

type polaris_cfg_data_t;
`)

manage_dirs_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_lnk_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.if

No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
#
policy_module(polarisngiolite, 1.0);


gen_require(`
    type polaris_ngiolite_t;
`)

polaris_btrace_data_manage(polaris_ngiolite_t)
polaris_crf_data_manage(polaris_ngiolite_t)
polaris_chasfs_manage(polaris_ngiolite_t)
polaris_tdlresolve_read(polaris_ngiolite_t)
polaris_tdlldb_list_dirs(polaris_ngiolite_t)
polaris_cpld_read(polaris_ngiolite_t)
polaris_flashlib_read(polaris_ngiolite_t)

optional_policy(`
polaris_cpp_tmp_ifdev_use(polaris_ngiolite_t)
# In the file of radium_xcvr.c allow access to create and bind
# the socket using the API bnxt_impl_init_netlink.
allow polaris_ngiolite_t self:netlink_generic_socket { bind createattr setopt };

# in iot platforms, ngiolite needs access to /proc/sys/net/ipv6/conf/mvsw/disable_ipv6
optional_policy(
  kernel_rwlock_sysctls(polaris_ngiolite_t)
kernels_search_network_sysctls(polaris_ngiolite_t)
)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`crankshaft_family',
polaris_qfp_sem_use(polaris_ngiolite_t)
polaris_ggpio_dev_read_write(polaris_ngiolite_t)
polaris_dplr_dev_use(polaris_ngiolite_t)
')

ifdef(`fugazi_platform',
polaris_qfp_sem_use(polaris_ngiolite_t)
')

# write access to /sys/bus/pci/rescan
dev_rwlock_sysfs(polaris_ngiolite_t)
# LOOK AT ME ngiolite does it through "echo 1 > /sys/bus/pci/rescan" seems to much
# to grunt shell and bin access just to write '1' string into the file
corecmd_exec_bin(polaris_ngiolite_t)
corecmd_exec_shell(polaris_ngiolite_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_ngiolite_t)
polaris_firmware_read(polaris_ngiolite_t)
polaris_udev_tmp_list_dirs(polaris_ngiolite_t)

# allow access to read the file cman rommon file.
polaris_proc_rmonbifo_getattr(polaris_ngiolite_t)
polaris_proc_rmonbifo_read(polaris_ngiolite_t)

allow polaris_ngiolite_t self:capability { net_admin sys_rawio };

# allow system time capability to check for system timeout
# while checking the state using API cwan_modem_check_ready_state
allow polaris_ngiolite_t self:capability sys_time;
# allow access to nim_xxd file created by cmcc
polaris_nim_xxd_tmp_open_unlink(polaris_ngiolite_t);

# ngiolite needs to work with /dev/sd /dev/sg devices to figure out disk driver
# parameters. drivers/userspace/nim_xxd library
storage_raw_read_fixed_disk(polaris_ngiolite_t)
storage_read_scsi_generic(polaris_ngiolite_t)
storage_write_scsi_generic(polaris_ngiolite_t)
polaris_sysfs_platform_dev_use(polaris_ngiolite_t)

# LOOK AT ME: ngiolite needs to work with /dev/ds31408, which is generic device_t now
gen_require(''
type device_t;
')
rw_chr_files_pattern(polaris_ngiolite_t, device_t, device_t)

# modprobe nim_dm dm_drv_log_level=0x01
ifdef('crankshaft_family',''
modutils_domtrans_insmod(polaris_ngiolite_t)
')
polaris_smartctl_domtrans(polaris_ngiolite_t)

# utah_fpge_driver.c needs socket to configure interface parameters
allow polaris_ngiolite_t self:udp_socket create_socket_perms;
polaris_utility_domain_template(smartctl)
corecmd_exec_bin(polaris_smartctl_t)
corecmd_exec_shell(polaris_smartctl_t)

# allow access to polaris_cpp_tmpfs_t file
# Example is ifdev shared memory /dev/shm/ifdev_shmem
# The ngiolite init function calls the api ifdev_init
# to initialize shared memory control info.
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_smartctl_t)
logging_send_syslog_msg(polaris_smartctl_t)
fstools_domtrans(polaris_smartctl_t)

# runs tar /bin/tar -xvzf /firmware/MicronP400m-MTFDDAK200MAN.pkg -C /firmware
polaris_firmware_manage(polaris_smartctl_t)
files_getattr_all_dirs(polaris_smartctl_t)
files_read_all_symlinks(polaris_smartctl_t)

# work with /dev/sgX
storage_read_scsi_generic(polaris_smartctl_t)
storage_write_scsi_generic(polaris_smartctl_t)

allow polaris_smartctl_t self:capability { chown dac_override fowner fsetid ];

type polaris_smartctl_tmp_t;
files_tmp_file(polaris_smartctl_tmp_t)
files_tmp_filetrans(polaris_smartctl_tmp_t, polaris_smartctl_tmp_t, file, "smart.pid")
manage_files_pattern(polaris_smartctl_tmp_t, polaris_smartctl_tmp_t, polaris_smartctl_tmp_t)

# script inherits stdout from ngiolite, needs permission to append to it
polaris_use_btrace_fifo(polaris_smartctl_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_ngiolite_t)
')

ifdef(`sparrow_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`blackheart_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`cabo_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`aventus_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`crankshaft_family',`
# allow scan pci/devices proc dir
# The ngiolite init function makes call to o2_cvmx_remote_open to
# open the remote library connection to cavium chip in FFP.
# The octeon library call invokes pci_get_device, which needs to
# access /proc.
kernal_getattr_proc_files(polaris_ngiolite_t)
kernal_write_proc_files(polaris_ngiolite_t)
kernal_read_system_state(polaris_ngiolite_t)

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of ngiolite access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
polaris_cm_fp_tmp_filetrans(polaris_ngiolite_t)
polaris_cm_fp_tmp_manager(polaris_ngiolite_t)

#############################################################
## CWAN NGIOLITE process policies start####################
#############################################################
# cwan running as a ngiolite process needs to be able to RW/IOCTL to qcqmiX files
polaris_qcqmi_dev_use(polaris_ngiolite_t)

# RDM thread in CWAN running as ngiolite process needs access to ttyUSB0 for DM logging
term_use_usb_trys(polaris_ngiolite_t)

# RDM/Event thread needs to add a newly generated DM log file/ Crash dump file to/from bootflash directory
polaris_bootflash_manager(polaris_ngiolite_t)

# Modem Monitor thread uses sendto over a Datagram socket to send datato Turing Thread
allow polaris_ngiolite_t self:unix_dgram_socket sendto;

# Modem Monitor thread opens a socket to UDEV to process Modem USB addition/disconnection events
allow polaris_ngiolite_t self:netlink_kobject_uevent_socket create_socket_perms;

# Modem Monitor thread needs to be able to open/Read and GetAttributes to differentiate between Telit/SWI vendor
udev_rw_db(polaris_ngiolite_t)

# Turing thread needs to gather stats as well as set the IP address to /proc/net/cwan_modem0/cwan0/src_ip
kernal_search_network_state(polaris_ngiolite_t)
polaris_kernel_rw_network_state_files(polaris_ngiolite_t)

#############################################################
## CWAN NGIOLITE process policies end####################
#############################################################
')

# on tsn need access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/external_int_pending dev
optional_policy(
    polaris_mokafpga_rw(polaris_ngiolite_t)
)
# on radium need to get model info
optional_policy('polaris_dash_dev_use(polaris_ngiolite_t)')

# work with contdev sysfs files
polaris_contdev_dev_read(polaris_ngiolite_t)

sysnet_domtrans_ifconfig(polaris_ngiolite_t)

logging_send_syslog_msg(polaris_ngiolite_t)

ifdef('neptune_platform',
    polaris_cpp_cavium_sdk_ipc_use(polaris_ngiolite_t)
')

optional_policy('polaris_nim_dm_dev_use(polaris_ngiolite_t)')

ifdef('radium_platform',
    # allow ngiolite to access nim_phy_device
    polaris_nim_phy_dev_use(polaris_ngiolite_t)
')

# TODO/FIXME, Need to review this permission, this is related to
# the call "echo 1 > /sys/bus/pci/rescan"
dev_manage_sysfs_dirs(polaris_ngiolite_t)
allow polaris_ngiolite_t sysfs_t:file create;

# allow ngiolite to access sfp over i2c bus
polaris_i2c_use(polaris_ngiolite_t)

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy('polaris_cpp_cavium_dma_map(polaris_ngiolite_t)')

# /dev/sfp-ktr & qfp sem access on Katar
ifdef('katar_platform',
polaris_sfp_katar_dev_use(polaris_ngiolite_t)
polaris_qfp_sem_use(polaris_ngiolite_t)
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)
')

# allow /usr/binos/bin/ngiolite to access /tmp/nim_xxd_present
gen_require('type polaris_cmrp_nim_xxd_tmp_t;')
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris-ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris-ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

# allow /usr/binos/bin/ngiolite to access /tmp/hd_sz
gen_require('type udev_tmp_t;')
read_files_pattern(polaris-ngiolite_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/lvm to be executed and to be operated
lvm_domtrans(polaris-ngiolite_t)

# allow /usr/binos/bin/ngiolite to manage /tmp
type polaris-ngiolite_tmp_t;
files_tmp_file(polaris-ngiolite_tmp_t)
files_tmp_filetrans(polaris-ngiolite_t, polaris-nvgiolite_tmp_t, file, "/tmp/xxdisplay.out")
manage_files_pattern(polaris-ngiolite_t, polaris-ngiolite_tmp_t, polaris-ngiolite_tmp_t)

# allow /usr/binos/bin/ngiolite to manage /tmp
# smartctl.out and
# /tmp/xxdisplay.out
manage_files_pattern(polaris-ngiolite_t, polaris-ngiolite_tmp_t, polaris-ngiolite_tmp_t)

# allow /usr/sbin/smartctl to operate on fsadm_exec_t
fstools_domtrans(polaris-ngiolite_t)

# allow /usr/sbin/smartctl to access nvme device in chr and blk
dev_nvme_chr_files_manage(polaris-ngiolite_t)
dev_nvme_blk_files_manage(polaris-ngiolite_t)

ifdef('sumatra_platform',
    # dev/cpld
    polaris_cpld_dev_use(polaris-ngiolite_t)
)

# manage "sysctrl_i2c.lck"
gen_require('type polaris_cm_rp_tmp_t;')
files_tmp_filetrans(polaris-ngiolite_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp Manage(polaris-ngiolite_t)

# access /dev/huron_fpga
polaris_huran_dev_use(polaris-ngiolite_t)

')

ifdef('crankshaft_family',

')
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# /var/run/cwan socket and pid
gen_require(
    type polaris_cwan_svr_var_run_t;
)

files_pid_filetrans(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, sock_file, "cwan_ezmanage_cwan_server")
create_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
delete_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
)

# allow /usr/binos/bin/ngiolite to access the the following interface
fs_unmount_xattr_fs(polaris_ngiolite_t)
deve_managenumeric_symlinks(polaris_ngiolite_t)
polaris_udev_tmp_managen(polaris_ngiolite_t)

# ngiolite/ezManage access rules - currently only applies to TSN
optional_policy(
    # Allow ngiolite to access ezManage dgram socket
gen_require(
        type polaris_ezmanage_t;
    )
    allow polaris_ngiolite_t polaris_ezmanage_t:unix_dgram_socket sendto;

    # Allow ngiolite to access ezManage socket file in /var/run
    polaris_manage_ezmanage_var_run_files(polaris_ngiolite_t)
)

# allow ngiolite to access /dev/nim_phy
ifdef("crankshaft_family","
    polaris_nim_phy_dev_use(polaris_ngiolite_t)
"
)

# allow ioctl, read, wr permission for ds31408 device
optional_policy(
    polaris_ds31408_dev_use(polaris_ngiolite_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.te
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#
# April 2017, Victor Kamensky
#
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#
	/tmp/.ncsshd_bp\.sock -s gen_context(system_u:object_r:polaris_dmi_ncsshd_log_t,s0)

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## <summary>Polaris vdaemon Policy Rules.</summary>

###Polaris vdaemon Policy Rules.

###Write vdaemon /var/run socket file

```c
interface('polaris_vdaemon_var_sock_write',
    gen_require(
        type polaris_vdaemon_t;
        type polaris_vdaemon_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_vdaemon_var_run_t)
    allow $1 polaris_vdaemon_t:unix_stream_socket { connectto };
)
```

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```c
policy_module(polarisboothelper, 1.0);

polaris_process_domain_template(boothelper_evt)
```
corecmd_exec_bin(polaris_boothelper_evt_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_boothelper_evt_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_boothelper_evt_t)

polaris_cpld_read(polaris_boothelper_evt_t)

#########################################################################
# work with /tmp/udev/

type polaris_udev_tmp_files_t;
files_tmp_file(polaris_udev_tmp_files_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_udev_tmp_files_t, dir, "udev")

polaris_bootflash_manage(polaris_boothelper_evt_t)

type polaris_boothelper_tmp_t;
files_tmp_file(polaris_boothelper_tmp_t)
files_tmp_filetrans(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, dir, "rommon_upgrade_ngwc")
manage_files_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
manage_dirs_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)

# watch over /tmp/rommon_upgrade_ngwc
allow polaris_boothelper_evt_t polaris_boothelper_tmp_t:dir watch;

# nyquist creates /tmp/udev_ssd.log
gen_require(''
  type udev_t;
)
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")

# create /dev/harddisk1 softlink during bootup
ifdef("crankshaft_family'','
gen_require(''
  type device_t;
  type initrc_t;
  type fixed_disk_device_t;
)
filetrans_pattern(initrc_t, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
')
# restorecon under setfiles_t appends to /tmp/udev_ssd.log
gen_require(''
  type setfiles_t;
)
polaris_udev_tmp_manage(setfiles_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarismnspd, 1.0);

gen_require(
    type polaris_nmspd_t;
')

polaris_btrace_data_manage(polaris_nmspd_t)
polaris_crft_data_manage(polaris_nmspd_t)
polaris_chasfs/manage(polaris_nmspd_t)
polaris_tdlresolve_read(polaris_nmspd_t)
polaris_tdlldb_list_dirs(polaris_nmspd_t)
polaris_cpld_read(polaris_nmspd_t)
polaris_lua_read(polaris_nmspd_t)
polaris_flashlib_read(polaris_nmspd_t)
polaris_ripc_sman_ui_serv_connect(polaris_nmspd_t)
polaris_db_tdlldb_dir_use(polaris_nmspd_t)

# mqipc manual, one that missing in platform tdl file

# mqipc manual, one that missing in platform tdl file

# mqipc manual, one that missing in platform tdl file

# mqipc manual, one that missing in platform tdl file

type polaris_nmspd_testclient1_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient1_mqipc_t)

type polaris_nmspd_testclient2_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient2_mqipc_t)

type polaris_testclient1_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspd_mqipc_t)

type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);
polaris_mqipc_create_name(polaris_nmspdt_t, polaris_nmspdt_testclient1_mqipc_t, nmspdt-testclient1)
polaris_mqipc_use(polaris_nmspdt_t, polaris_testclient1_nmspdt_mqipc_t)

polaris_mqipc_create_name(polaris_nmspdt_t, polaris_nmspdt_testclient2_mqipc_t, nmspdt-testclient2)
polaris_mqipc_use(polaris_nmspdt_t, polaris_testclient2_nmspdt_mqipc_t)

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_nmspdt_t)
polaris_socketat_nfs_read(polaris_nmspdt_t)
# enable listen on tcp port 16113
corenetscpbind(polaris_nmspdt_port)

allow polaris_nmspdt_t self:capability dac_override;

# Allow IPC messages to Btrace Process from NMSPD Process
logging_send_syslog_msg(polaris_nmspdt_t)
# Allow NMSPD to read DNS file for nameresolution
sysnet_read_config(polaris_nmspdt_t)

# NMSPD uses cURL to open HTTP coonections and SSL to open TLS Connections
# to DNASpaces and CMX respectively
gen_require('type node_t;
')
allow polaris_nmspdt_t node.t:udp_socket node_bind;
allow polaris_nmspdt_t self:udp_socket { bind connect getattr };
corenetscpbind_http_port(polaris_nmspdt_t)
polaris_odm_clnt2svr_mqipc_create(polaris_nmspdt_t)

# DB persistence
polaris_tlddbpersist_setup(polaris_nmspdt_t)
polaris_tmp_tlddb_persist_setup(polaris_nmspdt_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.te
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#
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#
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#

policy_module(polarisftm, 1.0);

gen_require('type polaris_ftm_t;
polaris_chasfsManage(polaris_ftm_t)
polaris_cpld_read(polaris_ftm_t)
polaris_flashlib_read(polaris_ftm_t)
polaris_tdlresolve_read(polaris_ftm_t)
polaris_ripc_sman_ui_serv_connect(polaris_ftm_t)
polaris_db_tdlldb_dir_use(polaris_ftm_t)
logging_send_syslog_msg(polaris_ftm_t)
corecmd_exec_bin(polaris_ftm_t)
corecmd_exec_shell(polaris_ftm_t)
auth_use_nsswitch(polaris_ftm_t)

# vconfd_load_shared_schemas
polaris_confdir_shared_schema_read(polaris_ftm_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_ftm_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_ftm_t)

polaris_cedge_reset_ns(polaris_ftm_t)

# /var/run/ftmd-xxx sockets and pid
type polaris_ftm_var_run_t;
files_pid_file(polaris_ftm_var_run_t)
manage_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
manage_sock_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
files_pid_filetrans(polaris_ftm_t, polaris_ftm_var_run_t, { file sock_file })
polaris_cfgmgr_var_sock_write(polaris_ftm_t)
polaris_dbg_var_sock_write(polaris_ftm_t)
polaris_fpm_var_sock_write(polaris_ftm_t)
polaris_ttm_var_sock_write(polaris_ftm_t)
polaris_vdaemon_var_sock_write(polaris_ftm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_ftm_t)
files_manage_boot_files(polaris_ftm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_ftm_t)
vip_exec_nowait uses setpgid
allow polaris_ftm_t self:process setpgid;

polaris_cedge_tmpfs_populate_policy(polaris_ftm_t)

# raw socket access from trace_tunnel_socket_icmp_init ftm_binos_trace.c
allow polaris_ftm_t self:rawip_socket create_socket_perms;
allow polaris_ftm_t self:capability net_raw;

# bind to ftm fnf port
corenet_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corenet_udp_bind_generic_node(polaris_ftm_t)

# ftm may create vrf-based netns on demand, vrf.65528
polaris_vrf_netns_populate_policy(polaris_ftm_t)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmpfs_populate_policy(polaris_ftm_t)
')

# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_ftm_t)

# ftm_change_default_gw_src_ip calls ip utility
sysnet_domtrans_ifconfig(polaris_ftm_t)

# ftm process periodically call nice utility to gzip some xml file
allow polaris_ftm_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.te
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#
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#
## <summary>Polaris fman_fp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.if
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#

/tmp/replication(/.*)?                gen_context(system_u:object_r:polaris_repm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.fc

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#

### <summary>Polaris Btrace Policy Rules.</summary>

maxlength("polaris_cpp_dev_use","polaris_cpp_device_t")
# Polaris cpp (ultra)

### <summary>
### Work (read, write, ioctl) with /dev/cpp_dev_info and /dev/cpp_vxe_rsrc
### devices.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#
interface("polaris_cpp_dev_use","
  gen_require(
    type device_t;
    type polaris_cpp_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_cpp_device_t)
  read_chr_files_pattern($1, device_t, polaris_cpp_device_t)
  allow $1 polaris_cpp_device_t:chr_file map;
polaris_i95_dev_use($1)
')

#########################################################################
## <summary>
## Make the specified domain as polaris cpp process.
## </summary>
## <param name="type">
## Type to be used as a cpp process.
## </param>
#
def interface('polaris_cpp_process',
    gen_require(''
        attribute polaris_cpp_domain;
    ')
    typeattribute $1 polaris_cpp_domain;
')

#########################################################################
## <summary>
## Make the specified domain able to use cpp /tmp files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
## <param name="object">
## File name in /tmp that domains creates and other cpp process
## access.
## </param>
#
def interface('polaris_cpp_tmp_files_use',
    gen_require(''
        type polaris_cpp_tmp_t;
    ')
    files_tmp_filetrans($1, polaris_cpp_tmp_t, file, $2)
    manage_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
    allow $1 polaris_cpp_tmp_t:file map;
')

#########################################################################
## <summary>
## Specified domain can execute polaris_cpp_tmpfs_t code
## which resides in /dev/shm/cpp_ucode_dram
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cpp_tmpfs_exec`,
    gen_require(
        type polaris_cpp_tmpfs_t;
    )
    allow $1 polaris_cpp_tmpfs_t:file execute;
)

########################################
## <summary>
## Read write from polaris_cpp_tmpfs_t file
## Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cpp_tmpfs_ifdev_rw`,
    gen_require(
        type tmpfs_t;
        type polaris_cpp_tmpfs_t;
    )
    rw_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
)

########################################
## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface(`polaris_cpp_tmp_ifdev_use',
    gen_require(
        type polaris_cpp_tmp_t;
    ')
)

manage_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
allow $1 polaris_cpp_tmp_t:file map;
')

########################################
## Make the specified domain able to getattr of /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
##
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_tmp_ifdev_getattr',
    gen_require(
        type polaris_cpp_tmp_t;
    ')
)

getattr_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
')

########################################
## Allow process to use Cavium SDK sysv IPC primitives
## created by octeon_pci_dmap.c. Those could be created either
## by cpp_driver (usually) or by cpp_cdm on utah and overlord,
## and by cm_fp on neptune.
##
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_cpp_cavium_sdk_ipc_use',
    ifdef(`crankshaft_family',
        polaris_cpp_driver_sem_use($1)
optional_policy("$
    polaris_cpp_cdm_sem_use($1)$
    polaris_cpp_cdm_shm_use($1)$
  ")
optional_policy("$
    polaris_cm_fp_sem_use($1)$
    polaris_cm_fp_shm_use($1)$
  ")

# allow scan pci/devices proc dir
kernel_getattr_proc_files($1)
kernell_write_proc_files($1)
kernell_read_system_state($1)
")

#............................................................
#
## <summary>
## Work (read, write, ioctl) with /dev/i95 devices
##</summary>
##<param name="domain">
##<summary>
## Domain allowed access.
##</summary>
##</param>
#
interface(‘polaris_i95_dev_use’,‘$
  gen_require(‘$
    type device_t;
    type polaris_i95_device_t;
  ’)
  write_chr_files_pattern($1, device_t, polaris_i95_device_t)
  read_chr_files_pattern($1, device_t, polaris_i95_device_t)
  allow $1 polaris_i95_device_t:chr_file map;
’)
gen_require(`
    type sysfs_t;
`)

mmap_files_pattern($1, sysfs_t, sysfs_t)
dev_rw_sysfs($1)
`)

#######################################
## <summary>
##      Manage /dev/shm files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_cpp_tmpfs_manage',`
    gen_require(`
    type polaris_cpp_tmpfs_t;
    type tmpfs_t;
`)

    fs_tmpfs_filetrans($1, polaris_cpp_tmpfs_t, file)
    manage_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris bt_logger Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.if
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#
# August 2017, Shawn Lu
#
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#
#
# /bootflash labels
# /bootflash(/.*)?              gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /bootflash/ssh(/.*)?          gen_context(system_u:object_r:ssh_home_t,s0)
# /bootflash/ssh/ssh_host.*_key\..? gen_context(system_u:object_r:ssh_key_t,s0)
# /bootflash/ssh_host.*_key     gen_context(system_u:object_r:ssh_key_t,s0)
# /bootflash/trace_logs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
# /bootflash/tan(/.*)?          gen_context(system_u:object_r:polaris_btrace_data_t,s0)
# /bootflash/core(/.*)?         gen_context(system_u:object_r:polaris_core_file_t,s0)
# /bootflash/csl_p_0(/.*)?      gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
# /bootflash/csl_p_1(/.*)?      gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
# /bootflash/csl_s_0/..?        gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
# /bootflash/csl_s_1/..?        gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
# /obfl is separate on qwlc
# /obfl(/.*)?                  gen_context(system_u:object_r:polaris_obfl_data_t,s0)
#
# /varied
# /varied(/.*)?                 gen_context(system_u:object_r:polaris_disk_varied_t,s0)
# /varied/install_info          gen_context(system_u:object_r:vwlc_install_info_t,s0)
# /varied/obfl1.*               gen_context(system_u:object_r:polaris_obfl_data_t,s0)
# /varied/grub_cisco_version    gen_context(system_u:object_r:polaris_grubver_t,s0)
# /varied/grub(/.*)?            gen_context(system_u:object_r:boot_t,t)
# /varied/grub2(/.*)?           gen_context(system_u:object_r:polaris_grub_bios_t,s0)
# /varied/grub/menu.*           gen_context(system_u:object_r:bootloader_etc_t,s0)
# /sbin/grub*                   gen_context(system_u:object_r:bootloader_exec_t,s0)
#
# /grubenv
# /bootefi(/.*)?                gen_context(system_u:object_r:polaris_grub_efi_t,s0)
#
# hanet driver used by vwlc and ultra, is there better place for it?
# /dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /harddisk labels (qwl)
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/epa device on qwl
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on qwl
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/astro on qwl
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/cpp_il on qwl
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

# /flash is symbolic link to /bootflash on qwl
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/oob_evfc on qwl
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/sfp-ktr on katar
/dev/sfp-ktr -c gen_context(system_u:object_r:polaris_sfp_katar_device_t,s0)

# To store tcpdump output in file haIntCaptureLo.pcap
/bootflash/haIntCaptureLo.pcap gen_context(system_u:object_r:polaris_netutils_data_t,s0)
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/config/ssh/ssh_host.*_key\.pub gen_context(system_u:object_r:sshd_key_t,s0)
/config/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.fc
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dnl

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dnl

dnl WLC Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 0)
max_bay_map_set('fp', 'per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 1)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set('rp', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vwlcmaps.m4
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#
# June 2017, Victor Kamensky
#
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#

policy_module(polariswebui, 1.0);

type polaris_webui_file_t;
files_type(polaris_webui_file_t)
polaris_pfile_type(polaris_webui_file_t)
polaris_process_domain_template(webui_lighttpd)
polaris_process_domain_template(webui)

gen_require('  
    type initrc_t;
  ')
manage_dirs_pattern(initrc_t, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscmrp, 1.0);

gen_require('  
    type polaris_cm_rp_t;
  ')

polaris_btrace_data_manage(polaris_cm_rp_t)
polaris_crft_data_manage(polaris_cm_rp_t)
polaris_chasfs_manage(polaris_cm_rp_t)
polaris_tdlresolve_read(polaris_cm_rp_t)
polaris_tdlldb_list_dirs(polaris_cm_rp_t)
polaris_cpld_read(polaris_cm_rp_t)
polaris_lua_read(polaris_cm_rp_t)
polaris_flashlib_read(polaris_cm_rp_t)
polaris_flashlib_write(polaris_cm_rp_t)

#
# cm_rp opens log file to collect required RP, CC, FP and rommon details
# and write into /vol/harddisk/.inv/inv_log_file
# This file is accessed by crashinfo collecting script and others

type polaris_cm_rp_inv_log_file_t;
polaris_disk_type(polaris_cm_rp_inv_log_file_t)
polaris_cm_rp_inv_log_setup(polaris_cm_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_rp_t)

polaris_cpld_dev_use(polaris_cm_rp_t)
polaris_lfts_dev_use(polaris_cm_rp_t)
polaris_proc_rmonbifo_read(polaris_cm_rp_t)
polaris_obfl_data_read(polaris_cm_rp_t)
polaris_db_tldlb_dir_use(polaris_cm_rp_t)

# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)

allow polaris_cm_rp_t self:capability { sys_rawio dac_override chown sys_resource};

allow polaris_cm_rp_t self:process setsched;

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479569571.044:3): avc: denied { getattr } for pid=5283 comm="cmand"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_rp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479569571.045:4): avc: denied { read write } for pid=5283 comm="cmand"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_rp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_rp_t)

polaris_ggpio_dev_read_write(polaris_cm_rp_t)

# accessing obfl files like /obfl/obfl_uptime_v2.log
polaris_bootflash_read(polaris_cm_rp_t)
polaris_obfl_data_manage(polaris_cm_rp_t)

corecmd_exec_shell(polaris_cm_rp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_cm_rp_t)

# cman_data_chasfs_mgmt_eth_override (cman/rp/src/cman_data.c:1096) tries to do
# ioctl(sk, SIOCGIFHWADDR, &ifr) for "eth2", which is not present on ultra, but
# such ioctl in kernel triggers dev_load attempt in kernel. Since interface
# and module does exist anyway, it is OK to deny it
kernel_dontaudit_request_load_module(polaris_cm_rp_t)

# cmand creates udp socket to get interface hw address cmlib_if_config_addr
allow polaris_cm_rp_t self:udp_socket create_socket_perms;

# dyncfg_setup.sh is started by cmand
polaris_dyncfg_domtrans(polaris_cm_rp_t)
polaris_dyncfg_tmp_read(polaris_cm_rp_t)
# on crankshaft cm_rp does init directly
polaris_dyncfg_setup(polaris_cm_rp_t)

# denied { search read open } subject: polaris_cm_rp_t; object: polaris_disk_varied_t
# name="/" dev="sda5"; path="/varied"
polaris_disk_varied_manage(polaris_cm_rp_t)
#allow polaris_cm_rp_t polaris_udev_tmp_files_t:dir { read search };
polaris_udev_tmp_list_dirs(polaris_cm_rp_t)

# LOOK AT ME: /tmp/rp/chasfs/inventory has symbolic links back to
# /bootflash/core/modules and /bootflash/tracelogs/modules cman_inv_restart_init
# calls chasfs_properties_internal over this node and as result it tries to
# access those directories
polaris_core_file_search(polaris_cm_rp_t)
polaris_disk_bootflash_search(polaris_cm_rp_t)
polaris_btrace_persistent_data_search(polaris_cm_rp_t)
polaris_dyncfg_tmp_manage(polaris_cm_rp_t)

ifdef(`mcp_family',`
    polaris_scooby_dev_use(polaris_cm_rp_t)
    # read/write /dev/ds3100 chr device
dev_rwlock_generic_chr_files(polaris_cm_rp_t)
polaris_spa_dev_use(polaris_cm_rp_t)
')

# temporary files created for repm in /tmp/replication
type polaris_cm_rp_tmp_t;
files_tmp_file(polaris_cm_rp_tmp_t)
gen_require(`
    type tmp_t;
    )
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pfu_oirtime.lock")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "golden_boot")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sr_message_debug.txt")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "ngwe_sudi_auth_done")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "codesign.txt")
polaris_cm_rp_tmp_manage(polaris_cm_rp_t)
logging_send_syslog_msg(polaris_cm_rp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_rp_t)
dev_getattr_sysfs_fs(polaris_cm_rp_t)

# /var files
gen_require(`
    type var_log_t;
    )
type polaris_cm_rp_var_log_t;
logging_log_file(polaris_cm_rp_var_log_t)
logging_log_filetrans(polaris_cm_rp_t, polaris_cm_rp_var_log_t, file, "obfl_uptime_v2.log")
manage_files_pattern(polaris_cm_rp_t, var_log_t, polaris_cm_rp_var_log_t)

# needed for "show platform hardware slot R0 eobc interface primary status"
kernel_read_network_state(polaris_cm_rp_t)

******************************************************************************
# show platform hardware slot R0 pcie status
# mcp_pcie_status_cmd.sh
#/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_pcie_status_cmd.sh
******************************************************************************
polaris_utility_domain_template(pcie_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_pcie_status_cmd_t, polaris_pcie_status_cmd_exec_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pcie_status_cmd_t)

# "lspci" needs access to files like /sys/devices/pci0000:00/0000:00:00.0/resource
dev_read_sysfs(polaris_pcie_status_cmd_t)
polaris_send_signal_to_bexecute(polaris_cm_rp_t)

# need write/getattr access for pipes like "pipe:[118396]"
polaris_cmrp_use_fifo(polaris_pcie_status_cmd_t)
corecmd_exec_bin(polaris_pcie_status_cmd_t)

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_cm_rp_t)
    polaris_nios_dev_use(polaris_cm_rp_t)
')

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_cm_rp_t)
')

ifdef(`crankshaft_family',`
polaris_quack_dev_use(polaris_cm_rp_t)
')

ifdef(`sparrow_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')
ifdef(`blackheart_platform',
    polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
 )

ifdef(`cabo_platform',
    polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
 )

ifdef(`aventus_platform',
    polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
    polaris_dio_dev_use(polaris_cm_rp_t)
 )

ifdef(`qwlc_platform',
    polaris_quack_dev_use(polaris_cm_rp_t)
 )

ifdef(`katar_platform',
    polaris_quack_dev_use(polaris_cm_rp_t)
 )

ifdef(`wlc_family',
    netutilis_domtrans_ping(polaris_cm_rp_t)
 )

ifdef(`ngwc_family',
    # In cman_rp module fips/entropy component
    # calls cman_ngwc_tam_platform_get_act2_entropy() to
    # retrieve entropy from ACT2 chip.
    polaris_act2_dev_use(polaris_cm_rp_t)
    
    # cman-rp init needs access to quack chip
    polaris_quack_dev_use(polaris_cm_rp_t)
    
    # read /proc/cmdline
    kernel_read_system_state(polaris_cm_rp_t)
    
    #on macallan and nyquist cman_rp needs to access /flash/<#/lic0/sudi_cert_data_v3
    polaris_disk_license_read(polaris_cm_rp_t)
    
    #on macallan and starfleet cli "show firmware version lan.spi" triggers ethtool usage
    sysnet_domtrans_ifconfig(polaris_cm_rp_t)
 )

# cman-rp needs to read /tmp/fed_post_result and /tmp/sm_post_result
# on ngwc platforms
optional_policy(`
polaris_fed_tmp_files_read(polaris_cm_rp_t)
')
optional_policy('polaris_sif_mgr_tmp_files_read(polaris_cm_rp_t)
')

ifdef('starfleet_platform',
    polaris_dmammap_dev_use(polaris_cm_rp_t)
')
ifdef('nyquist_platform',
    polaris_dmammap_dev_use(polaris_cm_rp_t)
    
# /dev/dmammap usage
    polaris_dmammap_dev_use(polaris_cm_rp_t)

# /dev/remap_mem0 usage
    polaris_remap_mem_dev_use(polaris_cm_rp_t)
    
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

    # executes tar for microcode
    allow polaris_cm_rp_t self:capability { fowner fsetid };
    
ifdef('radium_platform',
    # /dev/remap_mem0 usage
    polaris_remap_mem_dev_use(polaris_cm_rp_t)
')
ifdef('sumatra_platform',
    # /dev/remap_mem0 usage
    polaris_remap_mem_dev_use(polaris_cm_rp_t)
    # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
    polaris_dev_mem_use(polaris_cm_rp_t)
    # access huron FPGA
    polaris_huron_dev_use(polaris_cm_rp_t)
')
ifdef('quake_platform',
    polaris_ngwc_shm_manage(polaris_cm_rp_t)
    
# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm48950 is fixed using CSCvm48953
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

******************************************************************************
# CLI: "show platform hardware slot R0 xaui statistics"
# this results in cman (/usr/binos/bin/cmand) invoking
# "/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/dash_fpga_xaui.py show".
# The python script dash_fpga_xaui.py runs in polaris_bexecute_t domain
# and as part of its functionality it needs to create an UDP socket and make an ioctl call.
******************************************************************************
polaris_utility_domain_template(dash_fpga_xaui)
polaris_bexecute_domain(polaris_dash_fpga_xaui_t, polaris_dash_fpga_xaui_exec_t)
polaris_cmrp_use_fifo(polaris_dash_fpga_xaui_t)
allow polaris_dash_fpga_xaui_t self:udp_socket { create ioctl }

******************************************************************************
# CLI: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman_cli_show_cpu_share_cb in binos/cman/rp/src/cman_clic.c
# allow open/read/search cgroup files like
# /sys/fs/cgroup/cpu,cpuacct/iosxe_control_processes/cpu.shares
******************************************************************************
fs_read_cgroup_files(polaris_cm_rp_t)
fs_list_cgroup_dirs(polaris_cm_rp_t)

# on tsn need access to /dev/moka_fpga
optional_policy(`
polaris_mokafpga_dev_use(polaris_cm_rp_t)
')
optional_policy(
# betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_rp_t)
)

# on tsn read access to /sys/devices/platform/moka_fpga
optional_policy(
    polaris_mokafpga_read(polaris_cm_rp_t)
)

optional_policy(
    polaris_mokafpga_read(polaris_cm_rp_t)
)

# on vwlc/macallan, cmand creates /tmp/hw_entropy
    polaris_hw_entropy_create(polaris_cm_rp_t)

# on tsn need write access to
# sys/devices/platform/cpld/reg_rp_sku_register
# on starfleet need write access to
# sys/devices/platform/cpld/reg_fan_fault_shutdown
optional_policy(
    polaris_cpld_write(polaris_cm_rp_t)
)

# LOOK AT ME: /dev/mem access restriction
ifdef(`tsn_platform',`
    polaris_dev_mem_use(polaris_cm_rp_t)
')

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
    polaris_kgv_data_manage(polaris_cm_rp_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_cm_rp_t)
)

ifdef(`qwlc_platform',`
    dev_rw_generic_chr_files(polaris_cm_rp_t)
')

ifdef(`katar_platform',`
    dev_rw_generic_chr_files(polaris_cm_rp_t)
    # Read access to /tmp/ldwm_envelope file
    polaris_ldwm_envelope_read(polaris_cm_rp_t)
ifdef(`mcp_family',`
# Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

# /dev/luna_fpga on qwlc
optional_policy(`
polaris_luna_mbfpga_dev_use(polaris_cm_rp_t)
')

# open /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_rp_t)

optional_policy(`
polaris_ngwc_scc_shm_manage(polaris_cm_rp_t)
')

ifdef(`ngwc_family',`
# on nyquist in ngwc_update_member_config nvram_config is
# copied from /tmp/chassis/local/rp/tam/00011.nvram_config
polaris_nvram_manage(polaris_cm_rp_t)
# CMAN needs to create nvram_config with the right label instead of bootflash_t
gen_require(`
   type polaris_nvram_file_t;
   type polaris_disk_bootflash_t;
')
filetrans_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_nvram_file_t, file, "nvram_config")
')

# CMANRP needs to create right label instead of bootflash_t
type polaris_user_file_t;
files_type(polaris_user_file_t);
polaris_bootflash_filetrans(polaris_cm_rp_t, polaris_user_file_t, file);
manage_files_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_user_file_t)

# on virtual platforms cman reads virtual sudi file /csl_p_0/vudi.pri
ifdef(`vxe_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')
ifdef(`wlc_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')

# from cman_util_chaefs_watch_stby_harddisk
polaris_udev_tmp_watch(polaris_cm_rp_t)
# watch read over /tmp/chassis/local/rp/tam by cman_nyq_board_auth_init
polaris_chasfs_watch_read(polaris_cm_rp_t)

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_rp_t)

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy('polaris_serdes_asic_key_tmp_manage(polaris_cm_rp_t)
')

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_cm_rp_t)

ifdef('crankshaft_family',
# modprobe sm_nim_adpt.ko for Switzer-CC
modutils_domtrans_insmod(polaris_cm_rp_t)
# /dev/sm_nim_adpt device files for Switzer-CC
polaris_sm_nim_adpt_dev_use(polaris_cm_rp_t)

# "show platform hardware sublot <slot/card> backplane statistics"
# triggers ethtool with ifconfig_t using fifo_file (pipe) on polaris_cm_rp_t.
gen_require(')
    type ifconfig_t;
')

polaris_cmrp_use_fifo(ifconfig_t)
')

polaris_iosd_vcpu_read(polaris_cm_rp_t)

###########################################################################
# show platform hardware slot R0 fpga
# mcp_fpga_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_fpga_status_cmd.sh
###########################################################################

polaris_utility_domain_template(fpga_status_cmd)

polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_fpga_status_cmd_t, polaris_fpga_status_cmd_exec_t)
polaris_cmrp_use_fifo(polaris_fpga_status_cmd_t)

auth_use_nsswitch(polaris_fpga_status_cmd_t)
corecmd_exec_bin(polaris_fpga_status_cmd_t)

# PLEASE LOOK AT ME: /sys/devices/platform/nios should have Cisco specific label
# read content under /sys/devices/platform/nios
dev_read_sysfs(polaris_fpga_status_cmd_t)

def_read_sysfs(polaris_fpga_status_cmd_t)

ifdef(`sparrow_platform',
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`cabo_platform',
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',
polaris_fpga_upgrade_tmp_use(polaris_cm_rp_t)
')

type polaris_fpga_upgrade_tmp_t;
files_tmp_file(polaris_fpga_upgrade_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_fpga_upgrade_tmp_t, file, "fpga_upgrade")
# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)

# cman_rp needs read/write access to cpu msr
# /dev/cpu/0/msr
# following definition provides that
dev_rw_cpu_microcode(polaris_cm_rp_t)

type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

ifdef(`2kp_platform',
# blzi device
polaris_blzi_dev_use(polaris_cm_rp_t)
')

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_cm_rp_t)

ifdef(`wlc_family',
# tcpdump access for RP
# packet dump is stored in file /bootflash/haIntCaptureLo.pcap
type polaris_netutils_data_t;
polaris_pfile_type(polaris_netutils_data_t)
gen_require(
    type polaris_disk_bootflash_t;
    type netutils_t;
')
filetrans_pattern(netutils_t, polaris_disk_bootflash_t, polaris_netutils_data_t, file, "haIntCaptureLo.pcap")
manage_files_pattern(netutils_t, polaris_netutils_data_t, polaris_netutils_data_t)

# tcpdump access
netutils_run(polaris_cm_rp_t, system_t)

# pidof access
    dev_read_sysfs(polaris_cm_rp_t)
    kernel_read_system_state(polaris_cm_rp_t)
    domain_read_all_domains_state(polaris_cm_rp_t)

# /usr/sbin/ethtool access for show platform hardware slot x ha_port interface stats command
    sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')

optional_policy(
    polaris_ds31408_dev_use(polaris_cm_rp_t)
')

polaris_ddr_dev_use(polaris_cm_rp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_rp_t)

# allow access to /tmp/cmliib_eeprom_sim_smartctl.out
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "cmliib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_rp_t)
dev_nvme_blk_files_manage(polaris_cm_rp_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_cm_rp_t)
polaris_tmp_tdldb_persist_setup(polaris_cm_rp_t)

#code_sign_verify is started by cmand
polaris_code_verify_domtrans(polaris_cm_rp_t)

ifdef(`ngwc_family`,
    # SELINUX Mismatch warning when doing power redundancy configuration commands
    # Allow access /bootflash/nplusm-power
    polaris_nplusm_power_manage(polaris_cm_rp_t)
')

ifdef(`crankshaft_family`,
    # For USB disable feature, /sys/bus/usb/drivers/usb/*/authorized is accessed
    gen_require(
        type sysfs_t;
allow polaris_cm_rp_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_cm_rp_t)

ifdef(`petra_platform',
#allow access to /dev/petra-fpga
polaris_iots_fpga_dev_use(polaris_cm_rp_t)
#allow access to /flash6/monefg/cfg.dat
polaris_nvram_read(polaris_cm_rp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
divert(-1)

include(`polaris_process.m4')
dnl Stub out plaris process
define(`polaris_process',``)

dnl Stub out mqiPC
define(`polaris_mqipc_service_server','``)
define(`polaris_mqipc_service_client','``)
define(`polaris_mqipc_service_server_elastic_client','``)

dnl Stub out lipC
define(`polaris_lipc_service_server','``)
define(`polaris_lipc_service_client','``)

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_if.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server','``)
define(`polaris_cipc_service_server','``)

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
### <summary>Polaris Platform Base IPC Policy Rules.</summary>
### <required val="true">  
### Needed for each polaris platform
### </required>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_if.m4
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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#

policy_module(polaris_plogd, 1.0);

gen_require('  
    type polaris_plogd_t;
  ')

polaris_btrace_data_manage(polaris_plogd_t)
polaris_crft_data_manage(polaris_plogd_t)
polaris_chasfs_manage(polaris_plogd_t)
polaris_tdlresolve_read(polaris_plogd_t)
polaris_tdlldb_list_dirs(polaris_plogd_t)
polaris_cpld_read(polaris_plogd_t)
polaris_flashlib_read(polaris_plogd_t)
polaris_ripc_sman_ui_serv_connect(polaris_plogd_t)

# originally when box starts /dev/log is symbolic link to /run/systemd/journal/dev-log  
# but latter plogd reset links to its own socket: make sure that we have proper  
# transition
gen_require('  
    type devlog_t;
    type syslogd_t;
  ')

allow polaris_plogd_t devlog_t:sock_file manage_sock_file_perms;
allow polaris_plogd_t devlog_t:lnk_file manage_lnk_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")
# make sure that unix_dgram_socket got transitioned into syslogd_t
#type_transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
allow polaris_plogd_t syslogd_t:unix_dgram_socket { bind create read };
# autogen script misses connection between plogd
polaris_ric_plog_serv_connect(polaris_plogd_t)

# why plogd needs dac_override capability?
allow polaris_plogd_t self:capability { dac_override };
allow polaris_plogd_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_plogd_t)

# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues
gen_require(`
type journalctl_t;
`)
journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;

# should be moved into contrib journalctl.te? journalctl tries to read
# /proc/1/environ
gen_require(`
type journalctl_t;
`)
init_read_state(journalctl_t)
allow journalctl_t self:capability sys_resource;
allow journalctl_t self:process setrlimit;

# plogd calls stdbuf to set up journalctl buffering
corecmd_exec_bin(polaris_plogd_t)

# writes into pman fifo stdout
polaris_use_btrace_fifo(journalctl_t)

# /dev/log is symbolic link to /run/systemd/journal/dev-log
# need ability to search in init_var_run_t /run/systemd
# some of subjects that use syslog may not have it
gen_require(`
    attribute syslog_client_type;
`)
init_search_pid_dirs(syslog_client_type)
#plog_d calls journalctl to get system log including AVC message.
allow polaris_plogd_t journalctl_t:process signal;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.te
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#

# polaristamsrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

## <summary>Polaris ftm Policy Rules.</summary>

#####################################################################
## <summary>
##      Write ttm /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_ftm_var_sock_write',
  gen_require(`
    type polaris_ftm_t;
    type polaris_ftm_var_run_t;
    type var_run_t;
  `)
  write_sock_files_pattern($1, var_run_t, polaris_ftm_var_run_t)
  allow $1 polaris_ftm_t:unix_stream_socket { connectto }
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

/usr/bin/os/conf/iptbl.sh -- gen_context(system_u:object_r:polaris_iptbl_exec_t,s0)

/tmp/rp/iptbl -d gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/rp/iptbl/inot_fifo -p gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

# in polaris we have xtables-multi at wrong location
/usr/bin/xtables-multi -- gen_context(system_u:object_r:iptables_exec_t,s0)

#fman (rp/fp) acl mgmt and iptbl modules dependency
/tmp/iptbl.v4 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/iptbl.v6 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.fc
No license file was found, but licenses were detected in source scan.

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#
#
## <summary>Polaris cpp_sp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.if
No license file was found, but licenses were detected in source scan.

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#
#
#polarisngwctblmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky

## <summary>Polaris rrm_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.if
No license file was found, but licenses were detected in source scan.

## <summary>Polaris LIPC Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.fc
No license file was found, but licenses were detected in source scan.
# LIPC policy

## <summary>
## Manage lipc files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_lipc_manage',
gen_require(''
type polaris_lipc_t;
')
manage_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_lnk_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
')

## <summary>
## Getattr of lipc files directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_lipc_getattr',
gen_require(''
type polaris_lipc_t;
')
getattr_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_lnk_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
')
### <summary>
Create lipc file
</summary>

### <param name="domain">
Domain allowed creating lipc channel.
</param>

### <param name="channel_domain">
Domain assigned to lipc channel.
</param>

### <param name="channel_name">
File name of lipc channel.
</param>

```
interface('polaris_lipc_create_name',
gen_require(
  type polaris_lipc_t;
')
  type_transition $1 polaris_lipc_t : sock_file $2 $3;
  manage_sock_files_pattern($1, polaris_lipc_t, $2)

  polaris_socketat_nsfs_read($1)

# not specific enough
# type_transition $1 $1 : unix_stream_socket $2;
# allow $1 $2:unix_stream_socket { listen accept bind create write read };
')
```

### <summary>
Write lipc file
</summary>

### <param name="domain">
Domain allowed to connect and write into lipc file.
</param>

### <param name="channel_domain">
Domain assigned to lipc channel.
</param>
## <summary>
## <param name="server">
## Domain of owner of lipc channel.
## </param>
## </summary>

```c
interface('polaris_lipc_write',
    gen_require(''
type polaris_lipc_t;
    ')
    write_sock_files_pattern($1, polaris_lipc_t, $2)
    allow $1 $3:unix_stream_socket { connectto };

    polaris_socketat_nsfs_read($1)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.if
No license file was found, but licenses were detected in source scan.

```c
#define('polaris_lipc_service_server_aux','
    type $1;
    files_type($1)
    polaris_lipc_$2_create_name($3)')

#define('polaris_lipc_service_server_full','
    polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))
')

#define('polaris_lipc_service_server','
    ifelse(lipc_type_map($1), `', `polaris_lipc_service_server_full($1, $2)')
    lipc_type_map_set(lipc_label($1), process_label($2))
')

#define('polaris_lipc_service_client','
    define('polaris_lipc_service_client_aux',
        polaris_lipc_$2_write($3, $4))')

#define('polaris_lipc_service_client',
    define('polaris_lipc_service_client_aux',
        polaris_lipc_service_client_aux(lipc_label($1), lipc_stem($1), process_label($2), lipc_type_map(lipc_label($1))))
```
policy_module(polarisbtman, 1.0);

gen_require('/
    type polaris_btman_t;
')

polaris_crft_data_manage(polaris_btman_t)
polaris_chasfs_manage(polaris_btman_t)
polaris_tdlresolve_read(polaris_btman_t)
polaris_tldlb_list_dirs(polaris_btman_t)
polaris_cpld_read(polaris_btman_t)
polaris_flashlib_read(polaris_btman_t)
polaris_ripc_sman_ui_serv_connect(polaris_btman_t)
polaris_db_tldlb_dir_use(polaris_btman_t)
polaris_bexecute_domtrans(polaris_btman_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_btman_t)
polaris_send_signal_to_bexecute(polaris_btman_t)

corecmd_exec_bin(polaris_btman_t)
corecmd_exec_shell(polaris_btman_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btman_t)

allow polaris_btman_t self:capability { dac_override fsetid };
polaris_cpld_read(polaris_btman_t)

# operate on all btrace files
polaris_btrace_data_manage_all(polaris_btman_t)
# btman operated on /tmp/tmppub files
type polaris_btrace_tmppub_t;
files_tmp_file(polaris_btrace_tmppub_t)

polaris_systemd_tmppfiles_tmpp_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

polaris_persistent_read(polaris_btman_t)

# in purge_old_core_files_from_harddisk function of btrace_rotate_util.c
# script removes outdated core files, so it needs read/write permission
# to polaris_core_file_t files.
polaris_core_file_manage(polaris_btman_t)

fs_getattr_xattr_fs(polaris_btman_t)

# btman checks for presence of /tmp/udev/etc/udev/harddisk
# through hwutil_is_harddisk_present function of hwutil-common.sh
polaris_udev_tmpp_list_dirs(polaris_btman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_btman_t self:capability sys_resource;

# access to /tmp/sw/boot/dmesg
polaris_boot_tmp_read(polaris_btman_t)

polaris_create_ldb_domtrans(polaris_btman_t)

# btman calls update_resolver_luid_paths which eventually calls open_brand function for
# given polaris executable (build_crdu_luid_file_paths, bcrdu_get_proc_path_internal,
# brand_type_string)
polaris_read_exec_domain(polaris_btman_t)

# btman create transitional files in /tmp directory
type polaris_btman_tmp_t;
files_tmp_file(polaris_btman_tmp_t)
files_tmp_filetrans(polaris_btman_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_t, polaris_btman_tmp_t, polaris_btman_tmp_t)

# use syslog
logging_send_syslog_msg(polaris_btman_t)

# btman unlink /tmp/rp/pvp/work/btman_first_inst
polaris_pvp_manage_tmp_files(polaris_btman_t)
# operate on btrace file in /bootflash
polaris_btrace_persistent_data_manage(polaris_btman_t)

gen_require(
   type polaris_btrace_data_t;
')
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_crashinfo_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")

# btrace creates /tmp/rp/pvp/work/btman_first_inst directory in is_first_incarnation
# function called by btrace_rotate_init
polaris_pvp_manage_tmp_files(polaris_btman_t)

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@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
polaris_lipc_write(polaris_btman_t, polaris_lipc_t, polaris_pman_t)

# btman manages some persistent crashinfo files
polaris_disk_crashinfo_manage(polaris_btman_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_btman_t)

polaris_tmp_tlddb_persist_setup(polaris_btman_t)

polaris_btrace_data_watch(polaris_btman_t)

# dump_btrace_meta writes to /tmp/binary_trace.1605747053/.pkginfo
polaris_install_tmp_manager(polaris_btman_t)

#allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.te
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#
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#

policy_module(polarisfmanrp, 1.0);

gen_require(
    type polaris_fman_rp_t;
    )

#############################################################################
# mqipc manual, one that missing in platform tdl file
#############################################################################

# mq.-fman-log-bay0-peer0
type polaris_fman_log_bay0_peer0_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer0_mqipc_t)

# mq.-fman-log-bay0-peer1
type polaris_fman_log_bay0_peer1_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer1_mqipc_t)
# mq.-fman-log-bay0-peer2
type polaris_fman_log_bay0_peer2_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer2_mqipc_t)

# mq.-fman-log-bay0-peer3
type polaris_fman_log_bay0_peer3_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer3_mqipc_t)

# mq.-fman-log-bay0-peer4
type polaris_fman_log_bay0_peer4_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer4_mqipc_t)

# mq.-fman-log-bay0-peer5
type polaris_fman_log_bay0_peer5_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer5_mqipc_t)

# mq.-fman-log-bay0-peer6
type polaris_fman_log_bay0_peer6_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer6_mqipc_t)

# mq.-fman-log-bay0-peer7
type polaris_fman_log_bay0_peer7_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer7_mqipc_t)

# mq.-fman-log-bay0-peer8
type polaris_fman_log_bay0_peer8_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer8_mqipc_t)

polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer0_mqipc_t, fman-log-bay0-peer0)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer1_mqipc_t, fman-log-bay0-peer1)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer2_mqipc_t, fman-log-bay0-peer2)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer3_mqipc_t, fman-log-bay0-peer3)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer4_mqipc_t, fman-log-bay0-peer4)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer5_mqipc_t, fman-log-bay0-peer5)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer6_mqipc_t, fman-log-bay0-peer6)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer7_mqipc_t, fman-log-bay0-peer7)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer8_mqipc_t, fman-log-bay0-peer8)

polaris_btrace_data_manage(polaris_fman_rp_t)
polaris_crft_data_manage(polaris_fman_rp_t)
polaris_chasfs_manage(polaris_fman_rp_t)
polaris_tdlresolve_read(polaris_fman_rp_t)
polaris_tdlldb_list_dirs(polaris_fman_rp_t)
polaris_cpld_read(polaris_fman_rp_t)
polaris_flashlib_read(polaris_fman_rp_t)
polaris_lua_read(polaris_fman_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_rp_t)
ifdef("nyquist_platform");
gen_require(
    type polaris_bt_logger_fman_rp_mqipc_t;
  
  # fman_rp may start first and create this mqipc channel
  polaris_mqipc_create_name(polaris_fman_rp_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
  
  allow polaris_fman_rp_t self:udp_socket { create ioctl }; allow polaris_fman_rp_t self:capability { dac_override }; allow polaris_fman_rp_t self:capability2 block_suspend;

  # not clear why fman_rp tries to load netdev-mgmtbr kernel module
  # it does not exist on ultra anyway
  # type=AVC msg=audit(1478126742.967:98): avc: denied { module_request } for pid=18020 comm="fman_rp"
  kmod="netdev-mgmtbr" scontext=system_u:system_r:polaris_fman_rp_t:s0
tcontext=system_u:system_r:kernel_t:s0 tclass=system
  kernel_request_load_module(polaris_fman_rp_t)
polaris_socketat_nsfs_read(polaris_fman_rp_t)
polaris_dyncfg_tmp_read(polaris_fman_rp_t)

  # socketat usage from fman_punt_port_mapping_init for AF_NETLINK, SOCK_DGRAM
  polaris_lfts_dev_use(polaris_fman_rp_t)
  allow polaris_fman_rp_t self:netlink_tcpdiag_socket {create nlmsg_read };

  # fman_rp tries to write to systemd journal when a peer is stuck
  # introduced by CSCvt19772
  logging_send_syslog_msg(polaris_fman_rp_t)

  optional_policy(
    #fman-rp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_rp_t)
  )

  # manually create mqipc channel: missing in TDL
  type polaris_fmrp2fpm_mqipc_t;
polaris_mqipc_type(polaris_fmrp2fpm_mqipc_t)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fmrp2fpm_mqipc_t, fmrp2fpm_vulcan_mqipc)

  optional_policy(
polaris_fpm2fmrp_mqipc_use(polaris_fman_rp_t)
  )

  polaris_db_tdlhb_dir_use(polaris_fman_rp_t)
polaris_issu_tmp_files_read(polaris_fman_rp_t)

polaris_install_tmp_read(polaris_fman_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.te

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# August 2017, Shawn Lu
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policy_module(polarisrifmgr, 1.0);

gen_require(
    type polaris_rif_mgr_t;
')

polaris_btrace_data_manage(polaris_rif_mgr_t)
polaris_crft_data_manage(polaris_rif_mgr_t)
polaris_chasfs_manage(polaris_rif_mgr_t)
polaris_tdlresolve_read(polaris_rif_mgr_t)
polaris_tdlldb_list_dirs(polaris_rif_mgr_t)
polaris_cpld_read(polaris_rif_mgr_t)
polaris_lua_read(polaris_rif_mgr_t)
polaris_flashlib_read(polaris_rif_mgr_t)
polaris_lfts_dev_use(polaris_rif_mgr_t)
logging_send_syslog_msg(polaris_rif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_rif_mgr_t)

allow polaris_rif_mgr_t self:capability { sys_nice dac_override }
allow polaris_rif_mgr_t self:process { setsched }
# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_rif_mgr_t)

# work with /dev/hanet device
polaris_hanet_dev_use(polaris_rif_mgr_t)

# update/read chassis serial numer /csl_p_0/vudi.pri
polaris_disk_csl_manage(polaris_rif_mgr_t)

# monitors native interfaces flap over /proc and netlink
kernel_read_network_state(polaris_rif_mgr_t)
allow polaris_rif_mgr_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_rif_mgr_t self:unix_dgram_socket create_socket_perms;

# pidof and /proc usage
dev_read_sysfs(polaris_rif_mgr_t)
kernal_read_system_state(polaris_rif_mgr_t)
domain_read_all_domains_state(polaris_rif_mgr_t)
corecmd_exec_bin(polaris_rif_mgr_t)

kernal_dontaudit_request_load_module(polaris_rif_mgr_t)
# rifmgr creates udp socket to get interface flags in rif_rp_init
allow polaris_rif_mgr_t self:udp_socket create_socket_perms;
corenet_tcp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_tcp_connect_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_udp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_udp_bind_generic_node(polaris_rif_mgr_t)

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## <summary>Polaris stack_mgr Policy Rules.</summary>

###

##<param name="domain">
##<summary>
##Domain allowed access.
##</summary>
##<rolecap/>
#
interface(`polaris_use_stack_mgr_fifo',
gen_require(`
type polaris_stack_mgr_t;
')
write_fifo_files_pattern($1, polaris_stack_mgr_t, polaris_stack_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.if
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/tmp/.DMI_FIFO                      gen_context(system_u:object_r:polaris_dmi_vtyserverutild_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.fc
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# # July 2017, Victor Kamensky # # Copyright (c) 2017-2020 by Cisco Systems, Inc. # All rights reserved #

### <summary>Polaris cm_cc Policy Rules.</summary>

#########################################
### <summary>
### Execute cmd_fp in the polaris_cm_fp_t domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </param>
#
interface('polaris_cm_cc_domtrans',
    gen_require(
        type polaris_cm_cc_t, polaris_cm_cc_exec_t;
    )
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_cm_cc_exec_t, polaris_cm_cc_t)
)
### <summary>
### Manage cm_cc_tmpfs files.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_cm_cc_tmpfs_manage',`
    gen_require(`
        type polaris_cm_cc_tmpfs_t;
    `)
)
manage_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
`)

### <summary>
### Check presence and unlink /tmp/nim_xxd_present file created by cman cc.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolecap/>
#
interface(`polaris_nim_xxd_tmp_open_unlink',`
    gen_require(`
        type polaris_nim_xxd_tmp_t;
    `)
)
allow $1 polaris_nim_xxd_tmp_t:file { open unlink }
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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## <summary>Polaris LUA Policy Rules.</summary>

# Polaris Ifs

### <summary>Work (read, write, ioctl) with /dev/dev_lfts device.</summary>

### <param name="domain">

## Domain allowed access.

### </param>

### </summary>

### <rolebase/>

```
interface('polaris_lfts_dev_use',
    gen_require(''
        type device_t;
        type polaris_lfts_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_lfts_device_t)
    read_chr_files_pattern($1, device_t, polaris_lfts_device_t)

)```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.if
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## <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.if
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#
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#

/var/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_var_vman_t,s0)

/bootflash/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/vol/harddisk/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)

#sparrow, blackheart
/flash1/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/tmp/vman(/.*)? gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/cgroup.log gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/vman_lxc_wdt_[0-9]* gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/trace(/.*)? gen_context(system_u:object_r:polaris_vman_tmp_t,s0)

/usr/binos/conf/vman_exec.sh -- gen_context(system_u:object_r:polaris_vman_shell_exec_t,s0)
/usr/binos/conf/cgroup_reports.sh -- gen_context(system_u:object_r:polaris_cgroup_reports_exec_t,s0)
/usr/binos/conf/vman_techsupport.sh -- gen_context(system_u:object_r:polaris_vman_tech_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarisodmproxy, 1.0);

gen_require("  type polaris_odm_proxy_t;
")
polaris_btrace_data_manage(polaris_odm_proxy_t) polaris_crft_data_manage(polaris_odm_proxy_t)
polaris_chasfs_manage(polaris_odm_proxy_t)
polaris_tdlresolve_read(polaris_odm_proxy_t)
polaris_tdlldb_list_dirs(polaris_odm_proxy_t)
polaris_cplid_read(polaris_odm_proxy_t)
polaris_lua_read(polaris_odm_proxy_t)
polaris_flashlib_read(polaris_odm_proxy_t)

polaris_ripc_sman_ui_serv_connect(polaris_odm_proxy_t)

polaris_db_tdlldb_dir_use(polaris_odm_proxy_t)

#allow to setrlimit
allow polaris_odm_proxy_t self:capability sys_resource;
allow polaris_odm_proxy_t self:process setrlimit;
allow polaris_odm_proxy_t self:capability dac_override;

polaris_odm_clnt2svr_mqipc_create(polaris_odm_proxy_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.te
No license file was found, but licenses were detected in source scan.

#
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#
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#

## <summary>Polaris issu_monitor Policy Rules.</summary>
###
##   Execute issumonitor in the polaris_issu_monitor domain.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed to transition.
##   </summary>
## </param>
#
# interface(`polaris_issu_monitor_domtrans',`
# gen_require(`
#     type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
# ')
# domtrans_pattern($1, polaris_issu_monitor_exec_t, polaris_issu_monitor_t)
#')
dnl

dnl May 2018, Victor Kamensky

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dnl Place holder to let selinux-policy makefile know that this module

dnl is autiogenerated, but we have different rules for it

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.if
No license file was found, but licenses were detected in source scan.

policy_module(polariskeyman, 1.0);

gen_require(
    type polaris_keyman_t;
)

polaris_btrace_data_manage(polaris_keyman_t)
polaris_crft_data_manage(polaris_keyman_t)
polaris_chasfs_manage(polaris_keyman_t)
polaris_tdlresolve_read(polaris_keyman_t)
polaris_tdldb_list_dirs(polaris_keyman_t)
polaris_flashlib_read(polaris_keyman_t)
polaris_ripc_sman_ui_serv_connect(polaris_keyman_t)

allow polaris_keyman_t self:capability net_admin;
# keyman utilizes secure memory via ciscoss libcrypto.so (mlock)
allow polaris_keyman_t self:capability ipc_lock;
polaris_cpld_read(polaris_keyman_t)

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef('quake_platform',
  dev_read_sysfs(polaris_keyman_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef('supernova_platform',
  dev_read_sysfs(polaris_keyman_t)
')

Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.te
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#

# polaristamdrp file contexts place holder

Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.fc
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#
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#
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#

# /bootflash labels
/bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*.key\pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*.key  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
# /vol/bootflash4 labels

/vol/bootflash4(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/vol/bootflash4/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/obfl_.* gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /harddisk labels

/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk_internal(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/vol/harddisk_internal/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk_internal/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk_internal/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# on 1ng persistent storage arranged differently
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

/vol/disk0(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# scooby device
/dev/scooby -c gen_context(system_u:object_r:polaris_scooby_device_t,s0)

# spa devices handled by sys_platform driver
/dev/spa0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa1 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa2 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa3 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/iocp0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)

# htdp devices
/dev/htdp[0-9]* -c gen_context(system_u:object_r:polaris_htdp_device_t,s0)

# /dev/epa device on asr1k(mcp)
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epi_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epi_device_t,s0)
# /dev/luna_fpga on asr1k(mcp)
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/dash_fpga device on fugazi(mcp)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)

# /dev/astro on asr1k(mcp)
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/oob_evfc on asr1k(mcp)
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/cpp_il on asr1k(mcp)
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

/dev/ds31408 -c gen_context(system_u:object_r:polaris_ds31408_device_t,s0)
/dev/cbdma -c gen_context(system_u:object_r:polaris_cbdma_device_t,s0)
/dev/cpp_http -c gen_context(system_u:object_r:polaris_cpp_http_device_t,s0)
/dev/n2_device -c gen_context(system_u:object_r:polaris_n2_device_t,s0)
/dev/cy2213 -c gen_context(system_u:object_r:polaris_cy2213_device_t,s0)

/dev/vega -c gen_context(system_u:object_r:polaris_vega_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl define(`max_bay_map', `defn(format(``max_bay_map[%s-%s]'' , `$1', `$2'))')
define(`max_bay_map_set', `define(format(``max_bay_map[%s-%s]'' , `$1', `$2', `$3'))')
define(`max_elastic_map', `defn(format(``max_elastic_map[%s-%s-%s]'' , `$1', `$2', `$3'))')
define(`max_elastic_map_set', `define(format(``max_elastic_map[%s-%s-%s]'' , `$1', `$2', `$3', `$4'))')
define(`max_scope_map', `ifelse($2, `elastic', `max_elastic_map($1, $2, $3)', `max_bay_map($1, $2)'))

dnl RICP scope handling
define(`min_bay_ripc_map', `defn(format(``min_bay_ripc_map[%s-%s]', `$1', `$2')))
define(`min_bay_ripc_map_set', `define(format(``min_bay_ripc_map[%s-%s]', `$1', `$2', `$3')))

define(`min_elastic_ripc_map', `defn(format(``min_elastic_ripc_map[%s-%s-%s]', `$1', `$2', `$3')))
define(`min_elastic_ripc_map_set', `define(format(``min_elastic_ripc_map[%s-%s-%s]', `$1', `$2', `$3', `$4')))

define(`min_scope_ripc_map_aux', `ifelse($2, `elastic', `min_elastic_ripc_map($1, $2, $3)', `min_bay_ripc_map($1, $2)')
define(`min_scope_ripc_map', `ifelse(min_scope_ripc_map_aux($1, $2, $3), `', 0, min_scope_ripc_map_aux($1, $2, $3)))

define(`max_bay_ripc_map', `defn(format(``max_bay_ripc_map[%s-%s]', `$1', `$2')))
define(`max_bay_ripc_map_set', `define(format(``max_bay_ripc_map[%s-%s]', `$1', `$2', `$3')))

define(`max_elastic_ripc_map', `defn(format(``max_elastic_ripc_map[%s-%s-%s]', `$1', `$2', `$3')))
define(`max_elastic_ripc_map_set', `define(format(``max_elastic_ripc_map[%s-%s-%s]', `$1', `$2', `$3', `$4')))

define(`max_scope_ripc_map_aux', `ifelse($2, `elastic', `max_elastic_ripc_map($1, $2, $3)', `max_bay_ripc_map($1, $2)'))
define(`max_scope_ripc_map', `ifelse(max_scope_ripc_map_aux($1, $2, $3), `', 0, max_scope_ripc_map_aux($1, $2, $3)))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_max_scope.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris periodic Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polarisperiodic.if
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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### <summary>Polaris service_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.if

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polariscommon, 1.0);

########################################################################
# Polaris common
########################################################################

# domain that holds all polaris processes
attribute polaris_domain;

# domain that holds all polaris processes executables
attribute polaris_exec_domain;

# domain that holds all polaris processes plus few base types that operates on
# during system start, like initrc_t and unconfined_service_t. Please remove
# unconfined types latter.
attribute polaris_extended_domain;

gen_require(`
    type unconfined_t;
    type unconfined_service_t;
    type initrc_t;
    type init_t;
`)

typeattribute unconfined_t polaris_extended_domain;
typeattribute unconfined_service_t polaris_extended_domain;
typeattribute initrc_t polaris_extended_domain;
typeattribute init_t polaris_extended_domain;

# common permissions that are safe to grant and hard to root cause.
# these permissions may need to be turned off during development or tightened
# in future releases

gen_require(`
    attribute domain;
`
# sys_resource denial is seen due to disk full issue
# and possibly FD exceeding limit
allow domain self:capability sys_resource;

# When management interface is enabled for development Polaris device can be
# access by telnet, which directly drops into shell. It would be desirerably
# to remove telnet functionality at all. But for now we need transition
# rule to get shell running in unconfined domain.
gen_require(
    type telnetd_t;
)

unconfined_shell_domtrans(telnetd_t)

# This block is policies for "request platform software system shell" CLI.
# Execute bexecute in polaris_bexecute domain.
polaris_bexecute_domtrans(telnetd_t)

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd
# -L /usr/binos/conf/brelay.sh
# - this needs read/write/create access to /tmp/rp/trace/in_telnetd_*.bin.tmp
# which later gets renamed to /tmp/rp/trace/telnetd_service_sh_*.bin
polaris_btrace_data_manage(telnetd_t)
# mcp_telnetd_init through btrace_application_start calls get_chassis_number
# so it needs chasfs access
polaris_chasfs_read(telnetd_t)
polaris_cpld_read(telnetd_t)
polaris_btrace_lvl_config_manage(telnetd_t)

# LOOK AT ME: rsync needs sys_admin capability
# only seen when we boot in enforcing mode, localtime glibc library call
# needs time zone information and through __tz_convert function it eventually
# calls syspage function and that in turns calls Cisco syspage related
# prctl that is protected by CAP_ADMIN now
gen_require(
    type rsync_t;
)
allow rsync_t self:capability sys_admin;

# mount_packages.sh systemd unit runs under init_t and it leaks unix socket
gen_require(
    type rsync_t;
    type init_t;
)
allow rsync_t init_t:unix_stream_socket getattr;
# LOOK AT ME: auditd needs sys_admin capability
# only seen when we boot in enforcing mode, denials happens upon exec of
# auditdsp why is not entirely clear
gen_require(
    type auditd_t;
)
allow auditd_t self:capability sys_admin;

# LOOK AT ME:
# Because Cisco kernel features check for capability sys_admin
# before granting access to it. It turns out to be mistake because
# in SELinux universe beeing root does not mean one have sys_admin
# capability. For now grant sys_admin capability to everyone :(.
gen_require(
    attribute domain;
)
allow domain self:capability sys_admin;

# LOOK AT ME:
# all polaris SMU system is based on LD_LIBRARY_PATH passing from
# parent to child, but if auxv AT_SECURE would be set to 1, glibc
# will clean LD_LIBRARY_PATH and other environment variables when
# it execve another process. We need to grant noatsecure to all
# processes
gen_require(
    attribute domain;
)
allow domain domain:process { noatsecure rlimitinh };

# nfs server exporting some directories like /harddisk
gen_require(
    type nfsd_t;
)
polaris_disk_bootflash_read_lnk(nfsd_t)
polaris_harddisk_read(nfsd_t)

# nfs server check hugetlbfs files system
gen_require(
    type hugetlbsfs_t;
)
list_dirs_pattern(nfsd_t, hugetlbsfs_t, hugetlbsfs_t)

# temporarily addressing denial,
# preferable to turn on nfs_export_all_rw/ro boolean
gen_require(
    type removable_t;
)
list_dirs_pattern(nfsd_t, removable_t, removable_t)

# firmware type
type polaris_firmware_t;
files_type(polaris_firmware_t)

# some systemd unit creates /firmware directory in initramfs
gen_require(
    attribute domain;
    type root_t;
    )
filetrans_pattern(domain, root_t, polaris_firmware_t, dir, "firmware")

# handling /tmp/debug.conf, created by systemd unit
gen_require(
    type polaris_debug_conf_t;
    type unconfined_service_t;
    )
files_tmp_filetrans(unconfined_service_t, polaris_debug_conf_t, {file lnk_file}, "debug.conf")

# /tmp/etc files; serving as /etc like but sitting in mutable storage
# (assuming that real /etc would become read-only Eventually)
type polaris_etc_t;
files_type(polaris_etc_t);

# /tmp/sv files
type polaris_sv_tmp_t;
files_tmp_file(polaris_sv_tmp_t)

# /dev/i2c-N
type polaris_i2c_device_t;
dev_node(polaris_i2c_device_t)

# remap_mem0 device
type polaris_remap_mem_device_t;
dev_node(polaris_remap_mem_device_t)

type polaris_ebf_t;
files_type(polaris_ebf_t)

# allow all domains map/read ebf files
gen_require(
    attribute domain;
    )
polaris_ebf_map(domain)

# btrace files for telnetd, since telnetd is open source label
# and it does not use our domain creation template
gen_require(
    type telnetd_t;
)

type polaris_telnetd_bt_t;
polaris_btrace_data_type(polaris_telnetd_bt_t)
polaris_btrace_data_client(telnetd_t, polaris_telnetd_bt_t)

type polaris_telnetd_maroon_t;
polaris_maroon_data_type(polaris_telnetd_maroon_t)
polaris_maroon_data_client(telnetd_t, polaris_telnetd_maroon_t)

# "install add file" on ULTRA invokes:
#    /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd -L /usr/binos/conf/brelay.sh
# That needs getattr on /lib/systemd/system/ksm.service
polaris_ksm_run_check(telnetd_t)

# restorecon needs sys_resource capability
gen_require(
    type setfiles_t;
)
allow setfiles_t self:capability sys_resource;

# accessing /sys/firmware/dmi/tables/DMI
gen_require(
    type dmidecode_t;
    type sysfs_t;
)
mmap_files_pattern(dmidecode_t, sysfs_t, sysfs_t)

# called by confd_t label with it is file as stdin
polaris_confd_tmp_use_fifo(dmidecode_t)

# rpcbind binds to port
gen_require(
    type rpcbind_t;
)
corenets_udp_bind_generic_port(rpcbind_t)

# when polaris_unconfined we need to mark all subject labels except
# iosd lable to run as unconfined
ifdef(`polaris_unconfined',
    gen_require(
        type auditd_t;
    )
)
type dhcpc_t;
type getty_t;
type inetd_t;
type initrc_t;
type init_t;
type journalctl_t;
type nfssd_t;
type ntpd_t;
type rpcbind_t;
type rpcd_t;
type rsync_t;
type setfiles_t;
type sshd_t;
type syslogd_t;
type system_dbusd_t;
type udev_t;
type virtd_t;
type virtlogd_t;
type ldconfig_t;
type hostname_t;

) unconfined_domain(auditd_t)
unconfined_domain(dhcpc_t)
unconfined_domain(getty_t)
unconfined_domain(inetd_t)
unconfined_domain(initrc_t)
unconfined_domain(init_t)
unconfined_domain(journalctl_t)
unconfined_domain(nfssd_t)
unconfined_domain(ntpd_t)
unconfined_domain(rpcbind_t)
unconfined_domain(rpcd_t)
unconfined_domain(rsync_t)
unconfined_domain(setfiles_t)
unconfined_domain(sshd_t)
unconfined_domain(syslogd_t)
unconfined_domain(system_dbusd_t)
unconfined_domain(udev_t)
unconfined_domain(virtd_t)
unconfined_domain(virtlogd_t)
unconfined_domain(ldconfig_t)
unconfined_domain(hostname_t)

)  
ifdef(`polaris_unconfined',`  
optional_policy(`  
gen_require(`  
    type container_runtime_t;


unconfined_domain(container_runtime_t)

# /tmp/rsync_log_dir files
type polaris_rsync_tmp_t;
files_tmp_file(polaris_rsync_tmp_t)

# activate correct named transition for basic directories
# when code runs under unconfined_service_t, i.e calls ip
# command that runs under ifconfig_t and creates /run/netns
gen_require(')
    type unconfined_service_t;
')
domain_named_filetrans(unconfined_service_t)
gen_require(')
    type ifconfig_t;
    type ifconfig_var_run_t;
')
allow ifconfig_t ifconfig_var_run_t:dir mounton;

# earlier invocation of ifconfig complains about tmp_t mounton
# on /sys directory
gen_require(')
    type tmp_t;
')
allow ifconfig_t tmp_t:dir mounton;

#SERDES library stores info in /tmp/serdes_asic_key_dir/*
type polaris_serdes_asic_key_tmp_t;
files_tmp_file(polaris_serdes_asic_key_tmp_t)

# /dev/shm/vrf_shm access
type polaris_vrf_shm_t;
files_type(polaris_vrf_shm_t)

# /dev/shm/cerrno_dll access
type polaris_cerr_shm_t;
files_tmpfs_file(polaris_cerr_shm_t)

# for /sbin/ip: /dev/shm/vrf_shm access in netns creation
gen_require(')
    type ifconfig_t;
')
polaris_vrf_shm_manage(ifconfig_t)

# for /sbin/ip: adds lfts device in netns creation

polaris_lfts_dev_use(ifconfig_t)

# new systemd-tmpfiles needs this permissions
gen_require('  type systemd_tmpfiles_t;')
allow systemd_tmpfiles_t self:capability sys_resource;
allow systemd_tmpfiles_t self:process setrlimit;

gen_require('  type unconfined_service_t;')
 ssh_initrc_domtrans(unconfined_service_t)

# wlc awips
type polaris_awips_signature_file_t;
polaris_pfile_type(polaris_awips_signature_file_t)

#/usr/bin/curl
type polaris_curl_t;
type polaris_curl_exec_t;
init_system_domain(polaris_curl_t, polaris_curl_exec_t)
corenet_udp_bind_generic_node(polaris_curl_t)
auth_use_nsswitch(polaris_curl_t)
polaris_crft_data_read(polaris_curl_t)

# for ip netns exec X curl
optional_policy('  polaris_curl_domtrans(ifconfig_t)
')

#/etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require('  type initrc_t;
type ssh_home_t;
')
polaris_bootflash_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

#/tmp/ldwm_envelope file
type polaris_ldwm_envelope_tmp_t;
files_tmp_file(polaris_ldwm_envelope_tmp_t)
gen_require('  type initrc_t;
type init_t;
')
files_tmp_filetrans({ initrc_t init_t }, polaris_ldwm_envelope_tmp_t.file, "ldwm_envelope")
# CLI: show platform software tech-support

```
#CLI: show platform software tech-support

doctable_tech_support()

doctor_bexecute_domain(doctor_tech_support_t, doctor_tech_support_exec_t)
doctor_bexecute_doctrans(doctor_tech_support_t)

# allow to run readlink -f /usr/binos/conf/psimple.sh
corecmd_exec_bin(doctor_tech_support_t)

# Additional policies needed for workflow
auth_use_nsswitch(doctor_tech_support_t)
dev_list_sysfs(doctor_tech_support_t)
doctor_chasfs_read(doctor_tech_support_t)
doctor_cpld_read(doctor_tech_support_t)
# scripts stdin is set by hman and needs access to pipes like pipe:[271524]
doctor_hman_use_fifo(doctor_tech_support_t)
# Allow ls to /tmp/ufs/crashinfo
optional_policy(

    doctor_ncd_tmp_read(doctor_tech_support_t)
)

# Allow readlink to /usb0 and /usb1
optional_policy(

    fs_read_removable_symlinks(doctor_tech_support_t)
)

# misc file directly in /tmp like /tmp/esg_tech_support_command_file_out.txt
files_tmp_file(doctor_tech_support_t, doctor_tech_support_tmp_t, \"esg_tech_support_command_file_out.txt\")
files_tmp_file(doctor_tech_support_t, doctor_tech_support_tmp_t, \"sdwan_tech_support_command_file_out.txt\")

# /bootflash/certs
type polaris_ap_cert_file_t;
```

---

---
files_type(polaris_ap_cert_file_t)
polaris_pfile_type(polaris_ap_cert_file_t)

# Additional policies needed for workflow when file option is used
# show platform software tech-support file bootflash:show_tech_file
polaris_bootflash_manage(polaris_tech_support_t)
polaris_disk_crashinfo_manage(polaris_tech_support_t)
fs_getattr_tmpfs(polaris_tech_support_t)
polaris_btrace_persistent_data_read(polaris_tech_support_t)

# tamlib debug file
type polaris_tamlib_dbg_file_t;
polaris_pfile_type(polaris_tamlib_dbg_file_t)

# read /proc/cmdline
kernel_read_system_state(polaris_tech_support_t)
# read rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_tech_support_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_tech_support_t)

# /dev/ddr
type polaris_ddr_device_t;
dev_node(polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.te

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Ripc Base Interface Map: track that type declarations unique
define('ripc_base_type_map', `defn(format(``ripc_base_type_map[%s]'', `$1'))')
define('ripc_base_type_map_set', `define(format(``ripc_base_type_map[%s]'', `$1'), `$2')')

define('ripc_base_port_map', `defn(format(``ripc_base_port_map[%s]'', `$1'))')
define('ripc_base_port_map_set', `define(format(``ripc_base_port_map[%s]'', `$1'), `$2')')

define('polaris_ripc_portcon',portcon tcp $1 gen_context(system_u:object_r:$2,s0))
define('polaris_ripc_portcon_aux', 'dnl
ifelse(ripc_base_port_map($1), '', 'polaris_ripc_portcon($1, $2)')
ripe_base_port_map_set($1, $2)
')

define('polaris_ripc_portcon_many',
  `polaris_ripc_portcon_aux(eval($2 + $3), $1)
ifelse($4, $3, '', 'polaris_ripc_portcon_many($1, $2, eval($3 + 1), $4)')
')

define('polaris_ripc_service_server_aux', 'dnl
type $1, port_type, defined_port_type;
$4
')

define('polaris_ripc_service_server_full', 'dnl
polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2),
  polaris_ripc_portcon_many(ripc_label($1), $5, min_scope_ripc_map($3, $4, $2),
  max_scope_ripc_map($3, $4, $2)))
')

define('polaris_ripc_service_server', 'dnl
ifelse(ripc_base_type_map($1), '', 'polaris_ripc_service_server_full($1, $2, $3, $4, $5)')
ripe_base_type_map_set($1, 1)
')

define('polaris_ripc_service_client', 'dnl
ifelse(ripc_base_type_map($1), '', 'polaris_ripc_service_server_full($1, $2, $3, $4, $5)')
ripe_base_type_map_set($1, 1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_te.m4
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris ngwc_plfm_mgr Policy Rules.</summary>

#########################################################################
## <summary>
## Read /tmp/installer files and directories
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_ngwc_plfm_mgt_tmp_manage',
    gen_require(
        type polaris_ngwc_plfm_mgr_tmp_t;
    ')
manage_dirs_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
manage_files_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.if
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# # April 2017, Victor Kamensky
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#
## <summary>Polaris dmi_dmiauthd Policy Rules.</summary>

###########################################################################
## Connect to and send messages to dmiauthd.
## tmp/.DmiAuth.sock unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_dmi_dmiauthd_dgram_send',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_t;
        type polaris_dmi_dmiauthd_t;
    ')
allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_dmi_dmiauthd_t:unix_stream_socket { connectto };
write_sock_files_pattern($1, polaris_dmi_dmiauthd_tmp_t,polaris_dmi_dmiauthd_tmp_t)
`)  

`interface('polaris_dmiauthd_tmp_manage', `  
  gen_require( `    type polaris_dmi_dmiauthd_tmp_t;  
    type tmp_t;  
  `)  
  manage_fifo_files_pattern($1, tmp_t, polaris_dmi_dmiauthd_tmp_t)  
`)  

`)  

`interface('polaris_dmiauthd_use_fifo', `  
  gen_require( `    type polaris_dmi_dmiauthd_t;  
  `)  
  write_fifo_files_pattern($1, polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_t)  
`)  

`)  

`)
## 4.8.1

```c
interface(`polaris_dmiauthd_tmp_diags_manage',
  gen_require(
    type polaris_dmi_dmiauthd_tmp_diags_t;
    )
  manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  manage_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  )

###########
## <summary>
## Read /tmp/netconf-yang-diag/ files
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <rolebase/>

interface(`polaris_dmiauthd_tmp_diags_read',
  gen_require(
    type polaris_dmi_dmiauthd_tmp_diags_t;
    )
  read_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  list_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  read_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.if
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#
# March 2019, Shikhar Dogra
#
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#
#
# polarisfmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.fc
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dnl
define(`lipc_stem', `translit(patsubst($1, `-lipc$', `'), `-', `_'))
define(`lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1)))

dnl Lipc Type Map: track that type declations unique
define(`lipc_type_map', `defn(format(``lipc_type_map[%s]'', `$1')))
define(`lipc_type_map_set', `define(format(``lipc_type_map[%s]'', `$1'), `$2'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc.m4
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policy_module(polariscfgmgr, 1.0);

gen_require(
   type polariscfgmgr_t;
')
polaris_chasfs_manage(polariscfgmgr_t)
# read day0_oper.xml and write local.data.tmp
polaris_bootflash_manage(polariscfgmgr_t)
polaris_boot_tmp_read(polariscfgmgr_t)
polaris_cpld_read(polariscfgmgr_t)
polaris_tdlresolve_read(polariscfgmgr_t)
polaris_flashlib_read(polariscfgmgr_t)
polaris_ripc_sman_ui_serv_connect(polariscfgmgr_t)
polaris_db_tdlldb_dir_use(polariscfgmgr_t)
logging_send_syslog_msg(polariscfgmgr_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polariscfgmgr_t)
polaris_cedge_reset_ns(polariscfgmgr_t)
polaris_cedge_etc_manage(polariscfgmgr_t)
# /etc/version is opened via "show sdwan version"
polaris_confid_etc_read(polaris_cfgmgr_t)

# /var/run/cfgmgr socket and pid
type polaris_cfgmgr_var_run_t;
files_pid_file(polaris_cfgmgr_var_run_t)
manage_files_pattern(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
manage_sock_files_pattern(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, polaris_cfgmgr_var_run_t)
files_pid_filetrans(polaris_cfgmgr_t, polaris_cfgmgr_var_run_t, [ file sock_file ])

# sets up symbloc link /var/run/netns/default to pid 1 netns
sysnet_manage_ifconfig_run(polaris_cfgmgr_t)

# PLEASE LOOK AT ME create_syslog_conf_file function in
# viptela/cfgmgr/cfgmgr_logging.c creates /etc/syslog.conf.sysklogd file
# that nobody uses in polaris
files_manage_etc_files(polaris_cfgmgr_t)

# in cfgmgr_vpn_namespace_add creates udp socket
allow polaris_cfgmgr_t self:udp_socket create_socket_perms;

# watch /bootflash/sdwan/day0_oper.xml
polaris_persistent_watch(polaris_cfgmgr_t)

# compute_available_memory executes '/bin/df /dev/shm'
corecmd_exec_bin(polaris_cfgmgr_t)
# vip_binos_cpuninfo calls sysconf
dev_read_sysfs(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects SDWAN_DISK_MOUNT (/bootflash) fs info
fs_getattr_xattr_fs(polaris_cfgmgr_t)
# crashlist_refresh collects info about corefiles
polaris_core_file_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects info about /bootflash/.installer fs
polaris_disk_install_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem() collects available mem info by executing
# /bin/df /tmp/rp/ttdlb/
polaris_ttdlb_list_dirs(polaris_cfgmgr_t)

#vip_binos_cpuninfo() performs file operations on PROC_CPUSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polaris_cfgmgr_t)
#vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernle_read_system_state(polaris_cfgmgr_t)

# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polaris_cfgmgr_t)

# create tunnel interface in cfgmgr_tun_alloc function
corenet_rw_tun_tap_dev(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernel_rw_net_sysctls(polaris_cfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polaris_cfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp_manage(polaris_cfgmgr_t)
allow polaris_ccfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polaris_ccfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polaris_ccfgmgr_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.te
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dnl May 2018, Manohar Hungund
dnl
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dnl
Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`bp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`bp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 1)
max_bay_ripc_map_set(`bp', `per_bay', 1)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`bp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set('fp', 'global', 0)

max_bay_ripc_map_set('rp', 'global', 1)
max_bay_ripc_map_set('bp', 'global', 1)
max_bay_ripc_map_set('cc', 'global', 1)
max_bay_ripc_map_set('fp', 'global', 1)

dnl in elastic scope each process has its own value

max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

dnl

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dnl

dnl Nyquist Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 0)
max_bay_map_set('fp', 'per_bay', 0)

dnl in elastic scope each process has its own value

max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/bigbangmaps.m4
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#
# polarisodmproxy file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.fc

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## <summary>Polaris rif_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.if

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#
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#
# August 2018 Man-Yee Hau
#
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/usr/cpp/bin/qfp-ucode-csr -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-us -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csx -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-c8kv -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-wlc -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-utah -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tsn -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tsn-le -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-supernova -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-blackheart -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sparrow -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-aventus -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-cabo -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-goldbeach -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-radium -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

/usr/cpp/bin/qfp-ucode-fugazi -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sumatra -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-nanook -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-fb -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/var/run/rte_config -- gen_context(system_u:object_r:polaris_qfp_var_run_t,s0)

/dev/netmap -c gen_context(system_u:object_r:polaris_netmap_device_t,s0)
/dev/svc_eng_punt[0-9]* -c gen_context(system_u:object_r:polaris_sep_device_t,s0)

# qfp memif interfaces
/bootflash/SHARED-IOX/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)
/tmp/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)

# CSR & C8KV infiniband devices for Azure
/dev/infiniband/uverbs[0-9]* -c gen_context(system_u:object_r:polaris_infiniband_device_t,s0)

/etc/rc.d/init.d/iodbd.sh -- gen_context(system_u:object_r:polaris_iodbd_exec_t,s0)

# For Intel quickassist (qat) v1.5 - Note that mcp_family also includes this.
# fugazi uses polarismcp.fc and polarsiqfp.fc so need to exclude it here.
ifndef(`mcp_family',
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s)
');

# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_drv -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# For platforms which use the musdk from the Marvell 10.3.x.x SDK
/dev/musdk-cma -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.fc
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#

/usr/binos/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/binos/conf/sshd_service.sh -- gen_context(system_u:object_r:polaris_tservice_ssh_exec_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.fc
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/usr/bin/os/conf/rollback_timer.sh -- gen_context(system_u:object_r:polaris_rbtimer_exec_t,s0)

/bootflash/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/tmp/rp/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.fc
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dnl
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dnl
dnl Katar WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_rpc_map_set('fp', 'elastic', BPROC_ODM, 1)

max_elastic_rpc_map_set('rp', 'elastic', BPROC_WNCD, 7)
max_elastic_rpc_map_set('cc', 'elastic', BPROC_WNCD, 7)
max_elastic_rpc_map_set('fp', 'elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/katarmaps.m4

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#

# polariscontainer file contexts place holder

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf for docker
# Expected labels for docker as per container.fc

/bootflash/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/docker/.*config.env gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*containers/.*/.log gen_context(system_u:object_r:container_log_t,s0)
/bootflash/docker/.*containers/.*hostname gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*containers/.*hosts gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)

/bootflash/iox_alt_hdd_mount_dir/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*config.env gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*containers/.*/.log gen_context(system_u:object_r:container_log_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*containers/.*hostname gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*containers/.*hosts gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)

/mnt/sd3/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
ifdef(`nyquist_platform',
/mnt/sd3/iox_alt_hdd_mount_dir/docker(/.*)?
gen_context(system_u:object_r:container_var_lib_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/config\env
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/containers/*.*/.*\.log
  gen_context(system_u:object_r:container_log_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/containers/*.*/hostname
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/containers/*.*/hosts
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/overlay(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*.*/overlay2(/.*)?
gen_context(system_u:object_r:container_share_t,s0)'
#endif

ifdef(`passport_platform',
/flash1/iox_alt_hdd_mount_dir/docker(/.*)?
gen_context(system_u:object_r:container_var_lib_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/config\env
  gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/containers/*.*/.*\.log
  gen_context(system_u:object_r:container_log_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/containers/*.*/hostname
  gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/containers/*.*/hosts
  gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/overlay(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/*.*/overlay2(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
')
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.fc
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#

policy_module(polarissortfiles, 1.0);

    gen_require(
        type polaris_sort_files_t;
    )

corecmd_exec_bin(polaris_sort_files_t)

    # allow to read /proc/meminfo
    kernel_read_system_state(polaris_sort_files_t)

    # allow read of /etc/passwd
    auth_use_nsswitch(polaris_sort_files_t)

    polaris_btrace_data_manage(polaris_sort_files_t)
polaris_chasfs_manage(polaris_sort_files_t)
polaris_monbifo_tmp_read(polaris_sort_files_t)
polaris_read_debug_conf(polaris_sort_files_t)
polaris_persistent_getattr(polaris_sort_files_t)
polaris_persistent_list_dirs(polaris_sort_files_t)
polaris_cpld_read(polaris_sort_files_t)
polaris_capsule_upgrade_log_use(polaris_sort_files_t)
optional_policy(
    polaris_gnmib_gnoi_images_read(polaris_sort_files_t)
)

    # Dontaudit /bootflash/#lost+found avc denials
dontaudit polaris_sort_files_t polaris_disk:chr_file { getattr };
dontaudit polaris_sort_files_t polaris_disk:blk_file { getattr };

    #allow polaris_sort_files_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_sort_files_t)

optional_policy("
polaris_iox_dir_list(polaris_sort_files_t)
'

polaris_sandbox_file_dir_list(polaris_sort_files_t)

polaris_disk_bootflash_read_lnk(polaris_sort_files_t)

polaris_disk_bootflashfifo_file_getattr(polaris_sort_files_t)
polaris_disk_bootflash_sock_file_getattr(polaris_sort_files_t)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_sort_files_t)

# allow manage the files under /tmp/sort

type polaris_sort_files_tmp_t;
files_tmp_file(polaris_sort_files_tmp_t)
files_tmp_filetrans(polaris_sort_files_t, polaris_sort_files_tmp_t, file)
manage_files_pattern(polaris_sort_files_t, polaris_sort_files_tmp_t, polaris_sort_files_tmp_t)

# for pluggable FS, allow sort to access files on them.
polaris_getattr removable(polaris_sort_files_t)
polaris_removable_manage(polaris_sort_files_t)
fs_read removable_symlinks(polaris_sort_files_t)

# to look at files sort_file sometime needs to violate DAC permissions
allow polaris_sort_files_t self:capability dac_read_search;

optional_policy(''
# LOOK AT ME memif sock_file interface present in /bootflash as
# /bootflash/SHARED-IOX/memif/memif-dp-svr, since class of the
# object is sock_file adding it to polaris_disk does not make much
# sense
gen_require(''
    type polaris_qfp_memif_t;
    ')
getattr_sock_files_pattern(polaris_sort_files_t, polaris_qfp_memif_t, polaris_qfp_memif_t)
'')

# find runs fstatfs
fs_getattr_xattr_fs(polaris_sort_files_t)

# allow polaris_sort_files_t fs_t:filesystem getattr
fs_getattr_all_fs(polaris_sort_files_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_sort_files_t)

optional_policy(''

gen_require('  
    type polaris_efi_files_t;
  ')
#find /bootflash/ -printf %i %p
allow polaris_sort_files_t polaris_efi_files_t:dir { getattr open read search };

#stat -c %i %f %s %n /bootflash/EFI/UpdateCapsule/UpdateCapsuleFile.bin
allow polaris_sort_files_t polaris_efi_files_t:file getattr;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.te
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#
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#
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#

policy_module(polarisioxman, 1.0);

gen_require('  
    type polaris_ioxman_t;
  ')
polaris_btrace_data_manage(polaris_ioxman_t)
polaris_chasfs_manage(polaris_ioxman_t)
polaris_tdlresolve_read(polaris_ioxman_t)
polaris_tlddb_list_dirs(polaris_ioxman_t)
polaris_cpld_read(polaris_ioxman_t)
polaris_lua_read(polaris_ioxman_t)
polaris_flashlib_read(polaris_ioxman_t)
polaris_ripc_sman_ui_serv_connect(polaris_ioxman_t)
polaris_db_tlddb_dir_use(polaris_ioxman_t)
#allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)
corenet_tcp_connect_polaris_caf_api_port(polaris_ioxman_t)
# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_ioxman_t)
# ioxman interacting with caf through api http interface and
is uses curl library to send requests to caf. curl wants
to do getsockopt with SOL_SOCKET,
allow polaris_ioxman_t self:tcp_socket getopt;

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_ioxman_t)

corecmd_exec_bin(polaris_ioxman_t)
corecmd_exec_shell(polaris_ioxman_t)

# allow to run mount in its own domain; guestshell_set_netns.sh
# needs it; also, read and exec the set_netns script.
# ioxman_setup_guestshell_namespace invokes the script
# using NAMESPACE_COMMAND
mount_domtrans(polaris_ioxman_t)
polaris_guestshell_files_read(polaris_ioxman_t)
polaris_guestshell_exec_files_exec(polaris_ioxman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_ioxman_t)

# guestshell_set_netns.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ioxman_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_ioxman_t)

# modifies /bootflash/iox/iox_app/guestshell_iox.json
polaris_iox_files_manage(polaris_ioxman_t)

# guestshell_set_netns.sh touches /var/run/netns/guestshell
files_pid_filetrans(polaris_ioxman_t, polaris_guestshell_var_run_t, file, "guestshell")
polaris_guestshell_var_run_files_manage(polaris_ioxman_t)

# Read and write the all pty
term_use_generic_ptys(polaris_ioxman_t)

# allow ioxman_syslib.sh to set uid/gid for screen
allow polaris_ioxman_t self:capability { dac_override setgid setuid };

# ioxman execve virsh
gen_require(''
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_ioxman_t, virsh_exec_t, virsh_t)
# virsh needs to write into /tmp/rp/trace/iox_guestshell.log
polaris_btrace_data_manage(virsh_t)
# ioxman is vman client over @vman_domain_socket socket
optional_policy(
    polaris_vman_use_client_socket(polaris_ioxman_t)
)

# ioxman uses VS_OPER_DB from virtual_services_tbl_init
polaris_tlddbpersist_setup(polaris_ioxman_t)
polaris_tmp_tlddb.persist_setup(polaris_ioxman_t)

# ioxman through libcurl library hit c-ares DNS code needs
# udp sockets access
allow polaris_ioxman_t self:udp_socket connect;

logging_send_syslog_msg(polaris_ioxman_t)

# read /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_ioxman_t)

virt_manage_sandbox_files(polaris_ioxman_t)

# handle ioxman /tmp files like /tmp/iox_xml.dat
type polaris_iox_tmp_t;
files_tmp_file(polaris_iox_tmp_t)
polaris_iox.manage_tmp_files(polaris_ioxman_t)

# by some strange reason ioxman munges files in /bootflash/tracelogs
# please see iox_tracefile_restore in ioxman/src/im_serial.c
polaris_btrace_persistent_data_manage(polaris_ioxman_t)

# virsh execved from ioxman inherits stdout from ioxman
gen_require(
    type polaris_ioxman_bt_t;
    type virsh_t;
)
allow virsh_t polaris_ioxman_bt_t:file write;

optional_policy(
gen_require(
    attribute polaris_domain;
    attribute polaris_extended_domain;
    type container_runtime_t;
)
type attribute container_runtime_t polaris_domain;
type attribute container_runtime_t polaris_extended_domain;
)
# /usr/binos/conf/shell_exec.sh policy

polaris_utility_domain_template(iox_shell)

polaris_bexecute_domain(polaris_iox_shell_t, polaris_iox_shell_exec_t)
# shell_exec call bexec.sh
polaris_bexecute_domtrans(polaris_iox_shell_t)
corecmd_exec_bin(polaris_iox_shell_t)
polaris_chasfs_read(polaris_iox_shell_t)
auth_use_nsswitch(polaris_iox_shell_t)
fs_getattr_tmpfs(polaris_iox_shell_t)

mount_domtrans(polaris_iox_shell_t)

# inherit stdin from telnetd
telnet_use_ptys(polaris_iox_shell_t)

# create files under /bootflash/iox
polaris_iox_files_manage(polaris_iox_shell_t)

# executing guestshell.sh
polaris_guestshell_exec_files_exec(polaris_iox_shell_t)
polaris_guestshell_files_read(polaris_iox_shell_t)

# executing "ip netns exec guestshell /usr/bin/ssh ..."
sysnet_exec_ifconfig(polaris_iox_shell_t)
fs_read_nsfs_files(polaris_iox_shell_t)
files_mounton_rootfs(polaris_iox_shell_t)
dev_mounton_sysfs(polaris_iox_shell_t)
allow polaris_iox_shell_t self:netlink_route_socket rw_netlink_socket_perms;
dev_mounton_sysfs_fs(polaris_iox_shell_t)
dev_unmount_sysfs_fs(polaris_iox_shell_t)

# executing ssh
corenet_tcp_connect_ssh_port(polaris_iox_shell_t)
ssh_exec(polaris_iox_shell_t)
allow polaris_iox_shell_t self:tcp_socket { connect create getattr setopt shutdown };

# ssh creates /root/.ssh directory
userdom_create_user_home_dirs(polaris_iox_shell_t)

# read /etc/guestshell_rsa_key
polaris_guestshell_key_read(polaris_iox_shell_t)

# work with sendbox files
polaris_sandbox_file_dir_list(polaris_iox_shell_t)

polaris_caf_var_run_files_manage(polaris_iox_shell_t)
# shell_exec.sh invokes:
#  mkdir /tmp/.shell_exec
#  create /tmp/.shell_exec/*
type polaris_iox2iosd_tmp_t;
files_tmp_file(polaris_iox2iosd_tmp_t)
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, dir, ".shell_exec")
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, file)
#allow shell_exec to manage /tmp/.ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
# allow shell_exec to manage /tmp/.shell_exec/* files
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)
# allow shell_exec to work with files created by iosd
polaris_iosd2iox_tmp_manage(polaris_iox_shell_t)
ifdef(`nyquist_platform',
  # Manage alternate hdd files
  polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
)
ifdef(`passport_platform',
  # Manage alternate hdd files
  polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
)
allow polaris_iox_shell_t self:capability { chown dac_override fowner fsetid setgid setuid dac_read_search };
allow polaris_iox_shell_t self:cap_userns sys_admin;
allow polaris_iox_shell_t self:process setfscreate;

# LOOK AT ME very fishy iox_shell executes
#/bootflash/iox/repo-lxc/guestshell/rootfs_mnt/cisco/shell_exec.sh that
# actually can be modified from container itself. File is recreated
# each guestshell activation and it seems not executed afterwards.
# Grant access for now. Need to look closely whether it could be exploited
# in some way
virt_exec_sandbox_files(polaris_iox_shell_t)

# ip command called from iox_shell, running it under
# iox_shell domain, add required mounton on unlabeled_t
files_mounton_isid(polaris_iox_shell_t)

# read guestshell net namespace file
fs_read_nsfs_files(polaris_ioxman_t)

# need to create /bootflash/gs_script/db.ini file
polaris_bootflash_manage(polaris_ioxman_t)
polaris_harddisk_manage(polaris_ioxman_t)

# run_ioxn_secure_dir.sh policy
gen_require('
type polaris_iox_secure_dir_t;
'
corecmd_exec_bin(polaris_iox_secure_dir_t)
auth_use_nsswitch(polaris_iox_secure_dir_t)
polaris_caf_files_read(polaris_iox_secure_dir_t)
polaris_chasfs_manage(polaris_iox_secure_dir_t)
polaris_bootflash_manage(polaris_iox_secure_dir_t)
polaris_harddisk_manage(polaris_iox_secure_dir_t)
polaris_iox_files_manage(polaris_iox_secure_dir_t)

# /bin/cat9k_ssd_auth_cmds.sh

polaris_utility_domain_template(ssd_auth)

corecmd_exec_bin(polaris_ssd_auth_t)
storage_getattr_fixed_disk_dev(polaris_ssd_auth_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_auth_t)

fs_getattr_tmpfs(polaris_ssd_auth_t)

# execute hdparam in its own domain
fstools_domtrans(polaris_ssd_auth_t)

polaris_use_btrace_fifo(polaris_ssd_auth_t)

type polaris_ssd_auth_tmp_t;
files_tmp_file(polaris_ssd_auth_tmp_t)
# bash tmp files like /tmp/sh-thd.kX3sc
files_tmp_filetrans(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, file)
manage_files_pattern(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
# /tmp/ssd_blk_device created by udev
gen_require(''
    type udev_t;
    type tmpfs_t;
    type tmp_t;
')
filetrans_pattern(udev_t, {tmpfs_t tmp_t}, polaris_ssd_auth_tmp_t, file, "ssd_blk_device")
polaris_getattr_harddisk(polaris_ssd_auth_t)

fs_read_cgroup_files(polaris_ioxman_t)

# Allow ioxman to download package files using url
polaris_caf_tmp_files_manage(polaris_ioxman_t)
polaris_cli_fs_cmds_domtrans(polaris_ioxman_t)
# ufs information captured by the chasfs utils
optional_policy('
polaris_ncd_tmp_read(polaris_ioxman_t)
')
gen_require(
    type polaris_fts_client_tmp_t;
')

manage_files_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
allow polaris_ioxman_t tmp_t:file { create open unlink write };

# get_orchestration_template in cgroup_init_common.sh reads
# ovf-env.xml file from removable and varied
fs_read_removable_files(polaris_ioxman_t)
polaris_disk_varied_read(polaris_ioxman_t)

# writes into /tmp/trace/resource.log
optional_policy(
    polaris_vman_tmp_manage(polaris_ioxman_t)
')

# watch over /tmp/udev/etc/udev/usbflash1 in iox_media_chasfs_watch
polaris_udev_tmp_read(polaris_ioxman_t)
polaris_udev_tmp_watch(polaris_ioxman_t)

ifdef(`nyquist_platform',`
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_ioxman_t)
')

dev_getattr_fs(polaris_iox_shell_t)
kernell_read_system_state(polaris_iox_shell_t)

gen_require(
    type virt_lxc_var_run_t;
')
read_files_pattern(polaris_ioxman_t, virt_lxc_var_run_t, virt_lxc_var_run_t)

#sys_resource denial is seen even on factory reset
allow polaris_ioxman_t self:capability sys_resource;

ifdef(`passport_platform',`
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_ioxman_t)
')
polaris_iosd_vcpu_read(polaris_ioxman_t)

# work with files like /tmp/guestinfo_status.txt
polaris_iosd2iox_tmp_manage(polaris_ioxman_t)

gen_require(
    type screen_var_run_t;
    type screen_exec_t;
')

# allow ioxman to set up ttys for screen
polaris_caf_tty_lnk_manage(polaris_ioxman_t)

# allow ioxman_syslib.sh to invoke screen
screen_exec(polaris_ioxman_t)

# add entrypoint to screen_exec/can_exec permissions
allow polaris_ioxman_t screen_exec_t:file entrypoint;

# make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_ioxman_t, screen_var_run_t, dir, "screens")

# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_ioxman_t self:unix_stream_socket { create_socket_perms connectto };
manage_dirs_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)
manage_sock_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_ioxman_t)
polaris_bexecute_domain(polaris_ioxman_t, screen_exec_t)
# allow bexecute to access the /tmp/screens/*_sid files
gen_require(
    type polaris_bexecute_t;
')
manage_files_pattern(polaris_bexecute_t, screen_var_run_t, screen_var_run_t)

# allow shell_exec to manage /tmp/ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)

# allow shell_exec to manage guestshell files
gen_require(
    type container_file_t;
')
manage_files_pattern(polaris_iox_shell_t, container_file_t, container_file_t)

# allow ioxman to setattr for /dev/pts relating to screen
gen_require(}
type telnetd_devpts_t;
    
allow polaris_ioxman_t telnetd_devpts_t:chr_file setattr_chr_file_perms;

# allow ioxman to access the /tmp/ttyF*. files

gen_require(
    
    type fifo_var_run_t;

    
)
files_tmp_filetrans(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)

# allow ioxman to access rootfs and sysfs
# The same is needed when guestshell uses a passwordless SSH, when users do
# like "guestshell run bash" from IOS and it provides a bash shell screen
# in IOS.

gen_require(
    
    type ssh_home_t;

    
)
ssh_filetrans_admin_home_content(polaris_iox_shell_t)
allow polaris_iox_shell_t ssh_home_t:dir {create search getattr};
devel_getattr_sysfs_fs(polaris_iox_shell_t)

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#

policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

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.policy_module(polarisvxve, 1.0);

# hanet driver used by vpcgw platform of VXE family
ifdef('vpcgw_platform',
  type polaris_hanet_device_t;
  dev_node(polaris_hanet_device_t)
')

# on ultra in some cloud configuration runs dhclient utility
# receive meta information from cloud provider, /var/lib/dhcp
# directory is created by initrc_t
.gen_require(
  type dhcpc_t;
  type initrc_t;
  type dhcp_state_t;
')
.files_var_lib_filetrans({ dhcpc_t initrc_t }, dhcp_state_t, dir, "dhcp")

# during boot on misc cloud environment ultra image creates directory
# in /tmp to keep information received from cloud provider. Since latter
# it is copied into /varied directory let's assigned polaris_disk_varied_t
# to them
.gen_require(
  type initrc_t;
  type polaris_disk_varied_t;
  type unconfined_service_t;
')
.files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "ami")
.files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "azure")
.files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "gcp")

# park policy for small polaris process umbrella_init.sh here
.gen_require("
type polaris_umbrella_init_t;
)
polaris_bootflash_manage(polaris_umbrella_init_t)
corecmd_exec_bin(polaris_umbrella_init_t)
aUTH_use_nsswitch(polaris_umbrella_init_t)

# define added to address issues related to dependency
# on mcp-platform-tdl for db defines
# Skip for vpcgw platform
ifndef(`vpcgw_platform',`

type polaris_gnmib_t;
')

type polaris_objstore_sem_t;
files_tmpfs_file(polaris_objstore_sem_t)

# semaphore created by systemd-tmpfiles needs map permission
gen_require('  
       type systemd_tmpfiles_t;
')
mmap_fields_pattern(systemd_tmpfiles_t, polaris_objstore_sem_t, polaris_objstore_sem_t)

# on vxe all processes read grub_cisco_version in polaris_disk_varied_t
gen_require('  
       attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_vxeinstall_info_t;
polaris_pfile_type(polaris_vxeinstall_info_t)
gen_require('  
       type unconfined_service_t;
       type polaris_disk_varied_t;
')

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vxeinstall_info_t, file, "*.install_info")

# on C8KV all processes read grubenv in EFI disk partition
gen_require('  
       attribute polaris_domain;
')
polaris_grub_efi_search(polaris_domain)
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gen_require(
    type unconfined_service_t;
    type polaris_disk_varied_t;
    type polaris_obfl_data_t;
)

# unconfined service create /boot/obfl_temp_k1/2/3 if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k1")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k2")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k3")

# handle /tmp/vxe_disk_XXX_YYY files

gen_require(
    type unconfined_service_t;
)

polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v4")
polaris_boot_tmp_manage(unconfined_service_t)

# /etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically bootflash, but on MBRv2/MBRv4/GPTv1/GPTv3
# partition layouts it could be separate /config partitiion that is
# under polaris_disk_config_t label

gen_require(
    type initrc_t;
    type ssh_home_t;
)
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

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#

policy_module(polarisisssumonitor, 1.0);
polaris_process_domain_template(issu_monitor)

corecmd_exec_bin(polaris_issu_monitor_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_monitor_t)

polaris_btrace_data_manage(polaris_issu_monitor_t)
polaris_chasfs_manage(polaris_issu_monitor_t)
polaris_cpld_read(polaris_issu_monitor_t)
polaris_proc_rmonbifo_read(polaris_issu_monitor_t)
polaris_boot_tmp_read(polaris_issu_monitor_t)
polaris_read_debug_conf(polaris_issu_monitor_t)

# read and possibly create /bootflash/.installer/issu_crash dir
polaris_bootflash_manage(polaris_issu_monitor_t)

allow polaris_issu_monitor_t self:capability sys_resource;
allow polaris_issu_monitor_t self:process setpgid;

type polaris_issu_monitor_tmp_t;
files_tmp_file(polaris_issu_monitor_tmp_t)
files_tmp_filetrans(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, dir, "issu_mon_dir")
manage_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_dirs_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_fifo_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)

#access to /tmp/ufs/harddisk
optional_policy('polaris_ncd_tmp_read(polaris_issu_monitor_t)')

# access to /bootflash/.installer/issu_crash
polaris_disk_install_read(polaris_issu_monitor_t)

# access to /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_issu_monitor_t)

# read /proc/cmdline
kernel_read_system_state(polaris_issu_monitor_t)

# rm -rf /tmp/rp/issu_mon_dir
fs_getattr_tmpfs(polaris_issu_monitor_t)
policy_module(polarisact2, 1.0);

******************************************************************************
# ACT2 Chip Driver policy
******************************************************************************

type polaris_act2_device_t;
dev_node(polaris_act2_device_t)

******************************************************************************
# /tmp/hw_entropy file.
# Certain platforms save entropy from main board ACT-2 chip in this file.

type polaris_hw_entropy_t;
files_tmp_file(polaris_hw_entropy_t)

******************************************************************************

policy_module(polariscppha, 1.0);

gen_require(
   type polaris_cpp_ha_t;
')
polaris_btrace_data_manage(polaris_cpp_ha_t)
polaris_crft_data_manage(polaris_cpp_ha_t)
polaris_chasfs_manage(polaris_cpp_ha_t)
polaris_tdlresolve_read(polaris_cpp_ha_t)
polaris_tdlldb_list_dirs(polaris_cpp_ha_t)
polaris_cpld_read(polaris_cpp_ha_t)
polaris_flashlib_read(polaris_cpp_ha_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_ha_t)
polaris_db_tdlldb_dir_use(polaris_cpp_ha_t)
polaris_cpp_process(polaris_cpp_ha_t)
polaris_cpp_dev_use(polaris_cpp_ha_t)
polaris_icc_broken_relocations(polaris_cpp_ha_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_ha_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_ha_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_ha_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_ha_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_ha_t)
')
polaris_cpld_dev_use(polaris_cpp_ha_t)

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#

policy_module(polariscppsp, 1.0);

gen_require(`
    type polaris_cpp_sp_t;

polaris_btrace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manage(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)

polaris_db_tdlldb_dir_use(polaris_cpp_sp_t)

polaris_cpp_process(polaris_cpp_sp_t)
polaris_cpp_dev_use(polaris_cpp_sp_t)

polaris_icc_broken_relocations(polaris_cpp_sp_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_sp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_cpp_sp_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_sp_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_sp_t)
')
polaris_cpld_dev_use(polaris_cpp_sp_t)

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/usr/binos/conf/reflector.sh -- gen_context(system_u:object_r:polaris_reflector_exec_t,s0)
# access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmpmanage(polaris_sif_mgr_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_syscts(polaris_sif_mgr_t)

# work with /tmp files (/tmp/sm_post_result)
type polaris_sif_mgr_tmp_t;
files_tmp_file(polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sm_post_result")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "fips_status")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_0")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_1")
manage_files_pattern(polaris_sif_mgr_t, tmp_t, polaris_sif_mgr_tmp_t)
polaris_cm_rp_tmpmanag(polaris_sif_mgr_t)

#allow ipc_lock when mmap64(..) a shared mememoy with MAP_LOCKED in dplr_pkt_drv_oob.c
allow polaris_sif_mgr_t self:capability { ipc_owner dac_override ipc_lock };

#allow read from /tmp/hw_entropy
polaris_hw_entropy_read(polaris_sif_mgr_t)

polaris_obfll_data_manag(polaris_sif_mgr_t)

# /dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_sif_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_sif_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_sif_mgr_t)

polaris_lsmpi_dev_use(polaris_sif_mgr_t)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_tttys(polaris_sif_mgr_t)

polaris_socketat_nsfs_read(polaris_sif_mgr_t)

allow polaris_sif_mgr_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_sif_mgr_t)
# /dev/msi/Slot0/Doppler0/GroupN gets polaris_dplr_device_t label
# at some point, but need above generic chr permission by some
# reason, not clear need to look a bit more
polaris_dplr_dev_use(polaris_sif_mgr_t)
# set out of band interface mac set_oobndif_mac
allow polaris_sif_mgr_t self:tcp_socket ioctl;

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_sif_mgr_t)

# /dev/shm/sdm access
optional_policy(
    polaris_sdm_shm_manage(polaris_sif_mgr_t)
)

# LOOK AT ME: unsolicited creation of file in /bootflash
# by CSCvm43512. Backout when CSCvm99282 is fixed
polaris_bootflash_manage(polaris_sif_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_sif_mgr_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_sif_mgr_t)
)

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef('quake_platform',
    dev_read_sysfs(polaris_sif_mgr_t)
)

optional_policy(
    polaris_ngwc_scc_shm_manage(polaris_sif_mgr_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.te
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#
# August 2017, Shawn Lu
#
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#

# polariswncmgrd file contexts place holder

#gRPC certificate for ICap, written and read by wncmgrd
/bootflash/NACert.pem gen_context(system_u:object_r:polaris_icap_cert_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.fc
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dnl

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ISRV Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/isrvmaps.m4

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#

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#

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#

policy_module(polarismcp, 1.0);

# scooby device
type polaris_scooby_device_t;
dev_node(polaris_scooby_device_t)

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# epaN and epactrIN devices
type polaris_epa_device_t;
dev_node(polaris_eoa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# blzi_fpga device
type polaris_blzi_device_t;
dev_node(polaris_blzi_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# ds31408 device
type polaris_ds31408_device_t;
dev_node(polaris_ds31408_device_t)

# icp_ads_ctl device
#   Note that fugazi gets this from polarisqfp module
ifndef(`fugazi_platform',`
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)
')

  type polaris_cpp_htdp_device_t;
dev_node(polaris_cpp_htdp_device_t)

  type polaris_cbdma_device_t;
dev_node(polaris_cbdma_device_t)

  type polaris_n2_device_t;
dev_node(polaris_n2_device_t)

  type polaris_cy2213_device_t;
dev_node(polaris_cy2213_device_t)
type polaris_vega_device_t;
dev_node(polaris_vega_device_t)

# Fugazi makes use of fugazi_platform.tdl for IPCs and processes definition
# and it uses mcp_platform.tdl for databases definition. The below symbols
# are referred by mcp_platform.tdl but not fugazi_platform.tdl and hence these
# type definitions.
ifdef('fugazi_platform',
    type polaris_fnf_agg_t;
')

optional_policy(''
# access to /dev/icp_XXX device on asr1k platforms
    gen_require(''
        type polaris_cck_qat_t;
')

polaris_icp_dev_use(polaris_cck_qat_t)
dev_list_sysfs(polaris_cck_qat_t)
polaris_chasfs_read(polaris_cck_qat_t)
polaris_cpld_read(polaris_cck_qat_t)
polaris_tdlresolve_read(polaris_cck_qat_t)
')

# Handling denial for rsync_t for socket -
# comm="rsync" path=":socket:[16784]" dev="sockfs" ino=16784
# scontext=system_u:system_r:rsync_t:s0 tcontext=system_u:system_r:init_t:s0
    gen_require(''
        type rsync_t;
')
init_rwlock_streamsockets(rsync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.te
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#
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#
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#
#
# polarisioxman file contexts place holder

/usr/binos/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t:s0)

/usr/binos/conf/run_ioxn_secure_dir.sh -- gen_context(system_u:object_r:polaris_iox_secure_dir_exec_t:s0)
/bin/cat9k_ssd_auth_cmds.sh -- gen_context(system_u:object_r:polaris_ssd_auth_exec_t,s0)
/tmp/trace/resource.log -- gen_context(system_u:object_r:polaris_iox_tmp_t,s0)
/tmp/screens(/.*) -- gen_context(system_u:object_r:screen_var_run_t,s0)
/tmp/.shell_exec(/.*) -- gen_context(system_u:object_r:polaris_iox2iosd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.fc
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#
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#
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#

policy_module(polarisbsm, 1.0);

gen_require(
    type polaris_bsm_t;
')

polaris_btrace_data_manag(polaris_bsm_t)
polaris_chasfs_manag(polaris_bsm_t)
polaris_tdlresolve_read(polaris_bsm_t)
polaris_tdlldb_list_dir(polaris_bsm_t)
polaris_cpld_read(polaris_bsm_t)
polaris_flashlib_read(polaris_bsm_t)
polaris_ripic_sman_ui_serv_connect(polaris_bsm_t)

optional_policy(
    polaris_bde_dev_use(polaris_bsm_t)
')

allow polaris_bsm_t self:capability sys_nice;
allow polaris_bsm_t self:process setsched;

# need access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_bsm_t)

# handling /var/tmp/bsm_bcm_shell
type polaris_bsm_bcm_shell_t;
files_type(polaris_bsm_bcm_shell_t)
gen_require('
type tmp_t;
')
filetrans_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t, fifo_file, "bsm_bcm_shell")
manage_fifo_files_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t)

ifdef('vxe_family',
# bind to BSM_AGENT_CLIENT_PORT port from bsm_tlv_init
corennet_tcp_bind_polaris_bsm_agent_client_port(polaris_bsm_t)
')

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_bsm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.te
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#
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#
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#
/tmp/sm_post_result -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)
/tmp/fips_status -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.fc
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#
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#
## <summary>Polaris polarisissucompcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisisucompcheck.if
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#
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#
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policy_module(polarisngwcplfmgr, 1.0);

gen_require('
    type polaris_ngwc_plfm_mgr_t;
')

polaris_btrace_data_management(polaris_ngwc_plfm_mgr_t)
polaris_crft_data_management(polaris_ngwc_plfm_mgr_t)
polaris_chasfs_management(polaris_ngwc_plfm_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_plfm_mgr_t)
polaris_tdlodb_listdirs(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polaris_lua_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_read(polaris_ngwc_plfm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_plfm_mgr_t)
corecmd_exec_bin(polaris_ngwc_plfm_mgr_t)
corecmd_exec_shell(polaris_ngwc_plfm_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_plfm_mgr_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { sysrawio ipc_owner dac_override }; allow polaris_ngwc_plfm_mgr_t self:capability2 block_suspend;

polaris_obfl_data_management(polaris_ngwc_plfm_mgr_t)
polaris_dynamic_cfg_tmp_read(polaris_ngwc_plfm_mgr_t)
polaris_ngwc_shm_management(polaris_ngwc_plfm_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_plfm_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_plfm_mgr_t)

# open /dev/ttyS0 console in edison_platform_init
term_use_unallocated_ttys(polaris_ngwc_plfm_mgr_t)
polaris_disk_license_read(polaris_ngwc_plfm_mgr_t)
allow polaris_ngwc_plfm_mgr_t self:capability { chown fowner fsetid }

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_ngwc_plfm_mgr_t)

# create /tmp/hw_entropy file anf fill with info from act2
polaris_hw_entropy_create(polaris_ngwc_plfm_mgr_t)

polaris_boot_tmp_read(polaris_ngwc_plfm_mgr_t)

polaris_flashlib_write(polaris_ngwc_plfm_mgr_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmp_dirs(polaris_ngwc_plfm_mgr_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log. file access
# remove after CSCvh66533 fixed
polaris_bootflash_manage(polaris_ngwc_plfm_mgr_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polaris_ngwc_plfm_mgr_t)

# rsync nvram_config file accross stack
rsync_exec(polaris_ngwc_plfm_mgr_t)
gen_require('type rsync_t;
       ')
rsync_entry_domtrans(polaris_ngwc_plfm_mgr_t, rsync_t)
allow rsync_t polaris_ngwc_plfm_mgr_t:process sigchld;

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_ngwc_plfm_mgr_t)

# /dev/shm/sdm access
optional_policy('polaris_sdm_shm_manage(polaris_ngwc_plfm_mgr_t)
')
platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manage(polaris_ngwc_plfm_mgr_t)
allow polaris_ngwc_plfm_mgr_t self:process setfscreate;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.te
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#
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#

policy_module(polarisgrmgr, 1.0);

gen_require(
    type polaris_gr_mgr_t;
')

polaris_crft_data_manage(polaris_gr_mgr_t)
polaris_chasfs_manage(polaris_gr_mgr_t)
polaris_tdlresolve_read(polaris_gr_mgr_t)
polaris_cpld_read(polaris_gr_mgr_t)
polaris_lua_read(polaris_gr_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_gr_mgr_t)

allow polaris_gr_mgr_t self:capability { dac_override dac_read_search };
#DB persistence
polaris_tdldbpersist_setup(polaris_gr_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.te
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#

# ngio devices
/dev/ngio[0-9]* -c gen_context(system_u:object_r:polaris_ngio_device_t:s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomd.fc
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#

/tmp/idope_svr  gen_context(system_u:object_r:polaris_fed_debug_sock_t.s0)
/tmp/shfwd_svr  gen_context(system_u:object_r:polaris_fed_debug_sock_t.s0)

/tmp/pktgen.txt  gen_context(system_u:object_r:polaris_fed_debug_tmp_t.s0)
/tmp/DopeElam.sh  gen_context(system_u:object_r:polaris_fed_debug_tmp_t.s0)
/tmp/MemDumpElam.sh  gen_context(system_u:object_r:polaris_fed_debug_tmp_t.s0)

/dcmlog.txt --  gen_context(system_u:object_r:polaris_fed_debug_dcmlog_t.s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwfeddebug.fc
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#
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#
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#

policy_module(polariscpld, 1.0);

#########################################################################
# CPLD Driver policy
#########################################################################

# note polaris_sysfs_cpld_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

type polaris_cpld_device_t;
dev_node(polaris_cpld_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.te
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisrogued, 1.0);

gen_require('  
    type polaris_rogued_t;
  ')

polaris_btrace_data_manage(polaris_rogued_t)
polaris_chasfs_manage(polaris_rogued_t)
polaris_tdlresolve_read(polaris_rogued_t)
polaris_tdldb_list_dirs(polaris_rogued_t)
polaris_cpld_read(polaris_rogued_t)
polaris_lua_read(polaris_rogued_t)
polaris_flashlib_read(polaris_rogued_t)
polaris_ripc_sman_ui_serv_connect(polaris_rogued_t)
polaris_db_tdldb_dir_use(polaris_rogued_t)

# allow to use setrlimit
allow polaris_rogued_t self:process setrlimit;
allow polaris_rogued_t self:capability sys_resource;
allow polaris_rogued_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rogued_t)
polaris_socketat_nsfs_read(polaris_rogued_t)

# # allow to open udp socket on RDLP port 6532
corenet_udp_bind_polaris_rdlp_port(polaris_rogued_t)
corenet_udp_bind_generic_node(polaris_rogued_t)
allow polaris_rogued_t self:udp_socket { create_socket_perms recv_msg send_msg };  

# reading images/ap_capabilities.xml
polaris_wlc_ap_images_read(polaris_rogued_t)

# syslogs in RLDP
logging_send_syslog_msg(polaris_rogued_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_rogued_t)
polaris_tmp_tdldbPersist_setup(polaris_rogued_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.te
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#
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#

policy_module(polariscmm, 1.0);

gen_require(
    type polaris_cmm_t;
)

polaris_btrace_data_manage(polaris_cmm_t)
polaris_crft_data_manage(polaris_cmm_t)
polaris_chasfs_manage(polaris_cmm_t)
polaris_tdlresolve_read(polaris_cmm_t)
polaris_tdlldb_list_dirs(polaris_cmm_t)
polaris_cpld_read(polaris_cmm_t)
polaris_flashlib_read(polaris_cmm_t)
polaris_ripc_sman_ui_serv_connect(polaris_cmm_t)

allow polaris_cmm_t self:capability dac_override;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.te
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_fc.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_fc.m4
No license file was found, but licenses were detected in source scan.

#
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#
# polarisofa file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.fc
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#
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#

## <summary>Polaris emd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.if
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#
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#
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#

policy_module(polariscf, 1.0);

gen_require(
    type polaris_caf_t;
    type polaris_caf_exec_t;
    type usr_t;
')

ifdef('nyquist_platform',
    gen_require(
        type polaris_sioxcd_rp_t;
    ')
    # Allow read of /etc/passwd
    auth_map_passwd(polaris_sioxcd_rp_t)
    
    # Allow usage of ls in helper script
    corecmd_exec_bin(polaris_sioxcd_rp_t)
    
    # Allow sysfs read
    dev_list_sysfs(polaris_sioxcd_rp_t)
# Allow create/write/open of files under tmp

type polaris_sioxcd_rp_tmp_t;
files_tmp_file(polaris_sioxcd_rp_tmp_t);
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fстools.domtrans(polaris_sioxcd_rp_t)

# Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernel_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(
  polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

polaris_chasfs_manage(polaris_caf_t)
polaris_btrace_data_manage(polaris_caf_t)
polaris_cpld_read(polaris_caf_t)
polaris_boot_tmp_read(polaris_caf_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_caf_t)
corecmd_exec_bin(polaris_caf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_caf_t)

# run-caf.sh invokes startup.py. This leads to node_t:tcp_socket node_bind
corenent_tcp_bind_generic_node(polaris_caf_t)

allow polaris_caf_t self:capability { net_admin sys_resource }
allow polaris_caf_t self:tcp_socket { accept listen create_socket_perms }
allow polaris_caf_t self:udp_socket create_socket_perms;
allow polaris_caf_t self:unix_dgram_socket { create_socket_perms sendto }
allow polaris_caf_t self:cap_usersns { sys_admin sys_ptrace setgid setuid sys_chroot }

# df needs to have getattr on many file/dir/fs
fs_getattr_all_fs(polaris_caf_t)
fs_getattr_all_files(polaris_caf_t)
files_getattr_all_dirs(polaris_caf_t)
dev_getattr_all_chr_files(polaris_caf_t)
files_getattr_all_mountpoints(polaris_caf_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_caf_t)

# allow execution of /usr/sbin/brctl
brctl_domtrans(polaris_caf_t)

#allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_caf_t)
fs_list_cgroup_dirs(polaris_caf_t)

# add new type for /guestshell files and allow CAF to manage them
type polaris_guestshell_t;
files_type(polaris_guestshell_t)
manage_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_link_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_dirs_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

#required to support, guestshell enable, which creates <iox-storage>/iox/repo/guestshell
relabelto_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# run_ioxn_caf.sh invokes run-caf.sh which executes "ip"
sysnet_domtrans_ifconfig(polaris_caf_t)
# allow netns operations
sysnet_manage_ifconfig_run(polaris_caf_t)

libs_domtrans_ldconfig(polaris_caf_t)

# add new type for /bootflash/iox files and allow CAF to manage them
type polaris_iox_files_t;
polaris_disk_type(polaris_iox_files_t)
polaris_iox_files_manage(polaris_caf_t)

# need open, read, ioctl, getattr on /bootflash/debug.conf
polaris_read_debug_conf(polaris_caf_t)

# run_ioxn_caf.sh cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_caf_t)

# pvsm_cpu.sh reads /tmp/cgroup.log
optional_policy(
  polaris_vman_tmp_manage(polaris_caf_t)
)

# allow to read /proc/cpuinfo
kernel_read_system_state(polaris_caf_t)

optional_policy('container_runtime_domtrans(polaris_caf_t)
')

# add new type for /opt/cisco/caf files and allow CAF to manage them
type polaris_caf_files_t;
files_type(polaris_caf_files_t)
files_root_filetrans(polaris_caf_t, polaris_caf_files_t, dir)
files_root_filetrans(polaris_caf_t, polaris_caf_exec_t, dir, "scripts")
manage_dirs_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

gen_require('polaris_hm_t;
')
polaris_caf_files_read(polaris_hm_t)

# this label is created for sharing of core file dirs between host and containers
type polaris_caf_core_files_t;
polaris_disk_type(polaris_caf_core_files_t)
# transition /local files and dirs
files_root_filetrans(polaris_caf_t, polaris_caf_core_files_t, dir, "local")
polaris_btrace_data_manage(polaris_caf_core_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_core_files_t, polaris_caf_core_files_t)

# manage local core files between host and container
polaris_caf_local_core_files_manage(polaris_caf_t)
polaris_caf_local_core_files_manage(brctl_t)

# run_ioxn_caf.sh invokes startup.py that eventually through resourcemanager.py
# calls cpu_count_logical function in order to get number of cores and which
# needs read access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_caf_t)

# run-caf.sh modifies iox_polaris.conf; backup is saved due to "sed-i.bak".
# in order to preserve security context, setfscreate is invoked
allow polaris_caf_t self:process setfscreate;

# work with /var/log/caf/ files
type polaris_caf_log_t;
logging_log_file(polaris_caf_log_t)
manage_files_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "caf")
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "docker")
corenet_tcp_bind_polaris_caf_api_port(polaris_caf_t)

virt_stream_connect(polaris_caf_t)
virt_read_config(polaris_caf_t)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_caf_t)

# allow access to /etc/guestshell_rsa_key* files
type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)

# add new type for "internal" temp files created by underlying python modules when
# user-level python scripts (e.g., run_ioxn_caf.sh, run-caf.sh, etc) performs init;
# we are now creating them using TMPDIR=/tmp/caf; and, allow CAF to manage these
# internal temp files; in addition, underlying python-infra invokes __mmap() that
# somehow translates to.... execute stuff like "/tmp/caf/#97893 (deleted)"
type polaris_caf_tmp_files_t;
files_tmp_file(polaris_caf_tmp_files_t)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, dir)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, file)
manage_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
# python through libffi tries to mmap open file with PROT_EXEC, it triggers need
# for execute permission
allow polaris_caf_t polaris_caf_tmp_files_t:file execute;
allow polaris_caf_t polaris_caf_tmp_files_t:file map;

# python3 seems to do a setxattr syscall
# A folder like /bootflash/iox/repo/guestshell/extract_archive
# contains files that are extracted from a tarball and are
# made polaris_caf_tmp_files_t because of the files_tmp_filetrans rule
relabel_files_pattern(polaris_caf_t, polaris_iox_files_t, polaris_iox_files_t)
relabel_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# allow to run e2fsck in its own domain
fstools_domtrans(polaris_caf_t)

# allow to run mount in its own domain
mount_domtrans(polaris_caf_t)

# add new type for /guestshell/* .sh files
type polaris_guestshell_exec_t;
files_type(polaris_guestshell_exec_t)
# add new type for /var/run/netns/guestshell
type polaris_guestshell_var_run_t;
files_type(polaris_guestshell_var_run_t)

# add new type for /var/run/cisco_cli
type polaris_caf_var_run_t;
files_pid_file(polaris_caf_var_run_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_files_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
files_pid_filetrans(polaris_caf_t, polaris_caf_var_run_t, { file dir })

# Intermediate step: When CAF unpacks the contents of the application
# you upload, it will stage the contents somewhere and verify some checks
# (filesystem check on the disk image, existence of several folders, etc.). Disk
# images are mounted without any label since CAF has not generated security
# labels yet for the app at this point. The disk gets unmounted and eventually
# gets mounted again with the proper context/label.
type polaris_disk_caf_t;
polaris_disk_type(polaris_disk_caf_t)
list_dirs_pattern(polaris_caf_t, polaris_disk_caf_t, polaris_disk_caf_t)

allow polaris_caf_t self:capability { chown dac_override fowner fsetid setfcap sys_chroot sys_ptrace };
allow polaris_caf_t self:process setcap;
fs_read_nsfs_files(polaris_caf_t)

# caf to manage loop device: finding free /dev/loopN device
dev_rw_loop_control(polaris_caf_t)

# PLEASE LOOK AT ME
# allow caf to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_caf_t)

# caf executing chroot via bash
gen_require(
  type svirt_sandbox_file_t;
')
allow polaris_caf_t svirt_sandbox_file_t:file { execute execute_no_trans };

gen_require(
  type polaris_diskbootflash_t;
    type polaris_disk_harddisk_t;
  )
setattr_dirs_pattern(polaris_caf_t, polaris_diskbootflash_t, polaris_diskbootflash_t)
# replicating policy done for polaris_diskbootflash_t
setattr_dirs_pattern(polaris_caf_t, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

# caf connects to its own port 8098
corenet_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virt_manage_sandbox_files(polaris_caf_t)

kernel_read_network_state(polaris_caf_t)

polaris_bootflash_manage(polaris_caf_t)
polaris_bootflash_files_mmap(polaris_caf_t)
# allow polaris_disk_harddisk_t manage like polaris_disk_bootflash_t
polaris_harrdisk_manage(polaris_caf_t)

# caf execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
)
domtrans_pattern(polaris_caf_t, virsh_exec_t, virsh_t)
# virsh needs to read /opt/cisco/caf/scripts/ieobcbr.xml
polaris_caf_files_read(virsh_t)

# caf calls tipc-config that works with tipc sockets
allow polaris_caf_t self:socket create_socket_perms;
allow polaris_caf_t self:netlink_generic_socket { create_socket_perms sendto recvfrom };

# get and set attrs on httpd_var_run_t under /bootflash/iox
gen_require(
    type httpd_var_run_t;
)
getattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
setattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
# allow TCP connection for http port e.g. Local Manager
corenet_tcp_connect_http_port(polaris_caf_t)

# execute lvm commands, like lvs
lvm_domtrans(polaris_caf_t)

polaris_disk_crashinfo_getattr(polaris_caf_t)
optional_policy(
    polaris_ncd_tmp_read(polaris_caf_t)
)
logging_send_syslog_msg(polaris_caf_t)

# tries to load KLM like cuse, fuse, overlay
modutils_domtrans_insmod(polaris_caf_t)

# modifies files under /var/www/features/iox
apache_manage_sys_content(polaris_caf_t)

# caf reads version of ioxman from its executable
polaris_ioxman_exec_read(polaris_caf_t)

polaris_ioxman_show_version(polaris_caf_t)

type polaris_iiox_alt_hdd_files_t;
files_type(polaris_iiox_alt_hdd_files_t)
polaris_pfile_type(polaris_iiox_alt_hdd_files_t)
polaris_iiox_alt_hdd_manage(polaris_caf_t)

# On stargazer platform /vol/disk0 is used by iox to create below dirs.
# On nyquist platform /vol/usb1 with polaris_disk_harddisk_t is used
# Transition them to appropriate labels.
gen_require(
    type container_var_lib_t;
')

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iiox_alt_hdd_files_t }, polaris_iiox_files_t, dir, "iox")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iiox_alt_hdd_files_t }, polaris_caf_tmp_files_t, dir, "caf")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iiox_alt_hdd_files_t polaris_iiox_files_t }, container_var_lib_t, dir, "docker")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iiox_alt_hdd_files_t polaris_iiox_files_t }, polaris_iiox_files_t, dir, "iox_data_share")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iiox_alt_hdd_files_t polaris_iiox_files_t }, polaris_iiox_files_t, dir, "iox_host_data_share")

# Allow files under guest-share directory which is shared between ios
# and container
type polaris_iiox_shared_files_t;
files_type(polaris_iiox_shared_files_t)
polaris_pfile_type(polaris_iiox_shared_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_iiox_shared_files_t, polaris_iiox_shared_files_t)
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iiox_alt_hdd_files_t }, polaris_iiox_shared_files_t, dir, "guest-share")

# Allow signature verification of applications
gen_require(
    type polaris_code_verify_t;
')
polaris_iiox_files_manage(polaris_code_verify_t)
# allow caf to control /tmp/trace/resource.log
polaris_iox_manage_tmp_files(polaris_caf_t)

# some utility running under caf needs access to /varied/ovf-env.xml
polaris_disk_varied_read(polaris_caf_t)

# caf reads the udev information
gen_require('    type udev_var_run_t;
');
manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)

gen_require('    type virtd_lxc_t;
');
allow polaris_caf_t virtd_lxc_t:process signull;

polaris_removal Manage(polaris_caf_t)
polaris_lm_tmp_read(polaris_caf_t)

# caf modifies /etc/cgroup_params.txt
filesManage_etc_files(polaris_caf_t)

# read /tmp/iox_override.conf created by ioxman
polaris_iox_read_tmp_files(polaris_caf_t)

# python udev library used by caf
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattr setopt }

#need access to rawip socket by pd_iox.sh
allow polaris_caf_t self:capability { net_raw setgid };
allow polaris_caf_t self:rawip_socket { create getopt setopt };
# LOOK AT ME caf leaks fifo file descriptors need permissions for
# domains that started by it
gen_require('    type iptables_t;
');
allow iptables_t polaris_caf_t:fifo_file { read write append getattr };

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh
allow iptables_t self:cap_users { net_admin net_raw };

container_stream_connect(polaris_caf_t)

gen_require('    type pki_ca_port_t;
');
allow polaris_caf_t pki_ca_port_t:tcp_socket name_connect;
polaris_flashlib_read(polaris_caf_t)
polaris_flashlib_write(polaris_caf_t)
polaris_contdev_dev_read(polaris_caf_t)

gen_require(
    type rsync_exec_t;
    type rsync_port_t;
')
allow polaris_caf_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_caf_t rsync_port_t:tcp_socket name_connect;

# IOX uses rsync to sync the data
gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_caf_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_caf_t)
allow rsync_t polaris_caf_t:fifo_file { getattr write };

kernel_search_network_sysctl(polaris_caf_t)
kernal_rw_net_sysctls(polaris_caf_t)
dev_rw_sysfs(polaris_caf_t)

# Allow run-caf.sh to configure byte_queue_limits/limit_min for KR port
gen_require(
    type sysfs_t;
')
allow polaris_caf_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_caf_t)

# CAF needs access to setup for containers
manage_dirs_pattern(polaris_caf_t, self, self)
fs_associate_proc(polaris_caf_t)

# guestshell_setup.sh reads /proc/sys/kernel/core_pattern
kernel_read_usermodehelper_state(polaris_caf_t)
# and then guestshell_setup.sh reads /tmp/corelink
gen_require(
    type initrc_tmp_t;
')
allow polaris_caf_t initrc_tmp_t:lnk_file read;

# Beluga/Meraki container
ifdef(`ms_platform',`
polaris_iox_container_domtrans(polaris_caf_t)
')
# Bottlenose/Meraki container
ifdef(`bottlenose_platform',
polaris_iox_container_domtrans(polaris_caf_t)
')

#allow run_ioxn_caf.sh to modify /etc/docker/daemon.json, etc.
container_manage_config_files(polaris_caf_t)

# Manage IOx Secure storage CC files
type polaris_iox_ss_disk_t;
files_type(polaris_iox_ss_disk_t)
polaris_pfile_type(polaris_iox_ss_disk_t)

#Guestshell management
virt_signull(polaris_caf_t)

gen_require(
    type ifconfig_t;
')

# allow ifconfit_t usersns permissions for IP
allow ifconfig_t self:cap_usersns { net_admin sys_admin sys_ptrace };
# allow ifconfig_t to transition into dhcpc domain
sysnet_domtrans_dhcpc(ifconfig_t)

# Being an IOSP client does not allow for setattr permissions

gen_require(
    type polaris_iosd_portal_app_lipc_t;
')

setattr_sock_files_pattern(polaris_caf_t, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)

ifdef(`passport_platform',

gen_require(
    type polaris_sioxcd_rp_t;
')

# Allow read of /etc/passwd
auth_map_passwd(polaris_sioxcd_rp_t)

# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t;
files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)

# # Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# # Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# # Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# # Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# # Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

#iptables execute in its own domain
iptables_domtrans(polaris_caf_t)
# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kern דאך_םוד_םודטטא_םודטטא(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy('polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
')

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)
'

# Allow sync_data to use chvrf
polaris_chvrf_domtrans(polaris_caf_t)

#tty device and link files under /dev
type polaris_caf_tty_file_t;
dev_node(polaris_caf_tty_file_t)
dev_filetrans(polaris_caf_t, polaris_caf_tty_file_t, lnk_file)
term_use_ptmx(polaris_caf_t)
polaris_caf_tty_lnk_manage(polaris_caf_t)
polaris_caf_chr_file_read(polaris_caf_t)
polaris_iosd_vcpu_read(polaris_caf_t)

# Allow access starting/stopping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_use_fifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)

# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmbonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)
gen_require('  
  type dhcpc_t;
')
# allow these users capabilities for dhcpc
allow dhcpc_t self:cap_users { net_raw net_bind_service };
# allow CAF to transition to dhcpc e.g. dhclient_custom.sh
sysnet_domtrans_dhcpc(polaris_caf_t)
# allow reading of dhcp configuration files e.g.
# /vol/usb1/iox/repo-docker/perfsonar1/dhcp/dhcp_eth0.conf
polaris_caf_files_read(dhcpc_t)
# allow writing of dhcp lease files e.g. eth0ipv4.lease
polaris_iox_files_manage(dhcpc_t)
# allow dhcp domain to transition back into CAF e.g. dhclient_custom.sh
polaris_caf_domtrans(dhcpc_t)

# Allow read container share files
container_read_share_files(polaris_caf_t)

# Allow manage container files
gen_require('  
  type container_file_t;
  type container_share_t;
  type container_log_t;
')
mmmap_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_chr_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_fifo_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_sock_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_files_pattern(polaris_caf_t, container_log_t, container_log_t)

# Allow polaris caf to set attributes of device nodes of fuse devices
gen_require('  
  type fuse_device_t;
')
allow polaris_caf_t fuse_device_t:chr_file setattr;

# Allow polaris caf to set attributes of TUN/TAP virtual network device
gen_require('  
  type tun_tap_device_t;
')
allow polaris_caf_t tun_tap_device_t:chr_file setattr;

# Allow operations on fifo file
type fifo_var_run_t;
# make sure /tmp/ttyF0 is labeled correctly
files_tmp_file(fifo_var_run_t)
files_tmp_filetrans(polaris_caf_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_caf_t, fifo_var_run_t, fifo_var_run_t)

# allow udev read operations
polaris_udev_tmp_read(polaris_caf_t)

# allow link file for tmpfs_t
allow polaris_caf_t tmpfs_t:lnk_file create;

#########################
# IOx Secure storage service policies
#########################
optional_policy(''
  gen_require(''
    type polaris_ioxss_rp_t;
    type polaris_sort_files_t;
    type polaris_iosd_t;
  ')
  type polaris_ioxss_rp_tmp_t;
  files_tmp_file(polaris_ioxss_rp_tmp_t)
  files_tmp_filetrans(polaris_ioxss_rp_t, polaris_ioxss_rp_tmp_t, file, "ioxss_up")
polaris_ioxss_rp_tmp_manage(polaris_ioxss_rp_t)
polaris_chasfs_read(polaris_ioxss_rp_t)
polaris_lua_read(polaris_ioxss_rp_t)

manage_files_pattern(polaris_ioxss_rp_tmp_t, polaris_ioxss_disk_t, polaris_ioxss_disk_t)
allow polaris_sort_files_t polaris_ioxss_disk_t:dir list_dir_perms;
allow polaris_iosd_t polaris_ioxss_disk_t:dir list_dir_perms;

# Allow polaris_sort_files_t getattr of iosd_portal_app_lipc socket file
polaris_iosd_portal_app_lipc_getattr(polaris_sort_files_t)

# allow secure storage server to connect through tcp_socket on port 9000 from system-config.ini
  gen_require(''
    type http_port_t;
  ')

  allow polaris_ioxss_rp_t self:tcp_socket { bind create listen setopt };
corenet_tcp_bind_http_port(polaris_ioxss_rp_t);
allow polaris_ioxss_rp_t node_t:tcp_socket node_bind;

# allow polaris caf to process signal of dhcpc client
allow polaris_caf_t dhcpc_t:process signal;

# allow secure storage server to connect through socket
allow polaris_ioxss_rp_t self:socket create_socket_perms;
')

optional_policy(

# Allow polaris_sort_files_t getattr of container fifo file
gen_require(
    type polaris_sort_files_t;
    type container_file_t;
')
getattr_fifo_files_pattern(polaris_sort_files_t, container_file_t, container_file_t)
')

# Clear iox handling
container_manage_lib_files(polaris_caf_t)
container_manage_lib_dirs(polaris_caf_t)
container_manage_share_files(polaris_caf_t)
container_manage_share_dirs(polaris_caf_t)
gen_require(
    type polaris_vs_oper_db_tdldb_t;
    type polaris_tdldb_t;
')
manage_files_pattern(polaris_caf_t, polaris_tdldb_t, polaris_vs_oper_db_tdldb_t)

# allow caf to read systemd unit files
systemd_read_unit_files(polaris_caf_t)

# allow restorecon on iox_alt_hdd_mount_dir
seutil_domtrans_setfiles(polaris_caf_t)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, file, "iox_alt_hdd.dsk")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, dir, "iox_alt_hdd_mount_dir")

allow ifconfig_t polaris_iox_files_t:file { read };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris confd Policy Rules.</summary>
### <summary>
### Setup /dev/shm/confd directory and file, pid and shared memory.
###</summary>
###<param name="domain">
### Domain allowed access.
###</param>
#
interface(`polaris_confd_shm_setup',
    gen_require(
        type polaris_confd_shm_t;
        type tmpfs_t;
    )
    fs_tmpfs_filetrans($1, polaris_confd_shm_t, dir, "confd")
    manage_dirs_pattern($1, tmpfs_t, polaris_confd_shm_t)
    manage_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
    allow $1 polaris_confd_shm_t:file map;
')

### <summary>
### Read /dev/shm/confd_shared_schema shared memory.
###</summary>
###<param name="domain">
### Domain allowed access.
###</param>
#
interface(`polaris_confd_shared_schema_read',
    gen_require(
        type polaris_confd_shm_t;
        type tmpfs_t;
    )
    read_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
    allow $1 polaris_confd_shm_t:file map;
')

### <summary>
### Watch confd_shm directories
###</summary>
###<param name="domain">
###</param>
## Domain allowed access.

### <summary>
### </summary>
### <param>
### <rolebase/>
#
interface('polaris_confd_shared_schema_watch',
gen_require(' 
type polaris_confd_shm_t;
')
    allow $1 polaris_confd_shm_t:dir watch;
')

### <summary>
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_confd_read',
gen_require(' 
type polaris_confd_t;
')
    read_files_pattern($1, polaris_confd_t, polaris_confd_t)
    read_link_files_pattern($1, polaris_confd_t, polaris_confd_t)
')

### <summary>
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_confd_ndbutil_create',
gen_require(' 
type polaris_confd_ndbutil_lock_t;
')
    files_lock_filetrans($1, polaris_confd_ndbutil_lock_t, dir, "ndbutil")
```c
files_create_lock_dirs($1)
manage_dirs_pattern($1, polaris_confndbutil_lock_t, polaris_confndbutil_lock_t)
manage_files_pattern($1, polaris_confndbutil_lock_t, polaris_confndbutil_lock_t)
create_dirs_pattern($1, polaris_confndbutil_lock_t, polaris_confndbutil_lock_t)

')

########################################
## <summary>
## Creates types for and rules for ndbutils files under /var/lock/ndbufil
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_ndbufutil_t
## </summary>
## <param name="name" optional="true">
## The name of the object being created.
## </param>

# template('polaris_ndbufutil_lock_template',
  gen_require(
    type polaris_confndbufutil_lock_t;
  
  type polaris_$2_ndbufutil_t;
  files_type(polaris_$2_ndbufutil_t)
  
  filetrans_pattern($1, polaris_confndbufutil_lock_t, polaris_$2_ndbufutil_t, file, $3)
  manage_files_pattern($1, polaris_confndbufutil_lock_t, polaris_$2_ndbufutil_t)

  allow $1 polaris_$2_ndbufutil_t:file { watch watch_reads };
)

########################################
## <summary>
## Execute a domain transition to run mmap_schema polaris process.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
## <param>
```
interface('polaris_mmap_schema_domtrans',
gen_require('type polaris_mmap_schema_t, polaris_mmap_schema_exec_t;
')

domtrans_pattern($1, polaris_mmap_schema_exec_t, polaris_mmap_schema_t)
')

### <summary>
### Execute a domain transition to run confd polaris process.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>

interface('polaris_confd_domtrans',
gen_require('type polaris_confd_t, polaris_confd_exec_t;
')

domtrans_pattern($1, polaris_confd_exec_t, polaris_confd_t)
')

### <summary>
### Read confd log file (i.e /var/confd0/log/cia-confd.log). Used by dmiaudthd to convert confd logs to btrace.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

interface('polaris_confd_log_read',
gen_require('type polaris_confd_var_t;
')
read_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
')

### <summary>
### Manage confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by pman to rotate logs into /bootflash/tracelogs.

### <summary>
### Domain allowed access.
### </summary>
### </param>

# interface('polaris_confd_log_manage',
    gen_require('`
        type polaris_confd_var_t;
    `)
    manage_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
')

### <summary>
### Execute dmi_ports_fetch in the caller domain.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

# interface('confd_exec_dmi_ports_fetch',
    gen_require('`
        type polaris_dmi_ports_fetch_exec_t;
    `)

corecmd_search_bin($1)
can_exec($1, polaris_dmi_ports_fetch_exec_t)
')

### <summary>
### Manage confd /var/log files (i.e /var/log/confd)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

# interface('polaris_confd_var_log_manage',
    gen_require('`
        type polaris_confd_var_log_t;
    `)
logging_log_filetrans($1, polaris_conf'd_var_log_t, dir, "conf'd")
manage_dirs_pattern($1, var_log_t, polaris_conf'd_var_log_t)
manage_files_pattern($1, polaris_conf'd_var_log_t, polaris_conf'd_var_log_t)

')

####################################################
## <summary>
##      Read conf'd /var/log files (i.e /var/log/conf'd)
##      /bootflash/tracelogs/cia-netconf-trace* also has polaris_conf'd_var_log_t
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_conf'd_var_log_read',
    gen_require(
        type polaris_conf'd_var_log_t;
    ')
    list_dirs_pattern($1, polaris_conf'd_var_log_t, polaris_conf'd_var_log_t)
    read_files_pattern($1, polaris_conf'd_var_log_t, polaris_conf'd_var_log_t)
')

####################################################
## <summary>
##	Write into fifo file created by conf'd, typical case when
##	conf'd starts script under popen in different domain.
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolecap/>
#
interface('polaris_conf'd_tmp_use_fifo',
    gen_require(
        type polaris_conf'd_tmp_t;
    ')
    read_fifo_files_pattern($1, polaris_conf'd_tmp_t, polaris_conf'd_tmp_t)
    write_fifo_files_pattern($1, polaris_conf'd_tmp_t, polaris_conf'd_tmp_t)
')

####################################################
## <summary>
##	Write into file created by conf'd, to deal with cases
##	

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 10393
confd starts script under popen in different domain and
file descriptor leaks into another domain. Since we cannot
modify confd to use O_CLOEXEC

<summary>
<param name="domain">
</param>
</summary>

Domain allowed access.

<summary>
<param name="domain">
</param>
</summary>

<rolecap/>

interface('polaris_confd_tmp_use',
  gen_require(''
    type polaris_confd_tmp_t;
  ')

  read_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
  write_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
')

<summary>
<param name="domain">
</param>
</summary>

Domain allowed access.

<summary>
<param name="domain">
</param>
</summary>

<rolecap/>

interface('polaris_confd_etc_read',
  gen_require(''
    type polaris_confd_etc_t;
  ')

  read_files_pattern($1, polaris_confd_etc_t, polaris_confd_etc_t)
')

<summary>
<param name="domain">
</param>
</summary>

Domain allowed access.

<summary>
<param name="domain">
</param>
</summary>

Create an object in the /var directory under
polaris_confd_var_t label.

<summary>
<param name="domain">
</param>
</summary>
## <param name="object">
## <summary>
## The object class of the object being created.
## </summary>
## </param>
## <param name="name" optional="true">
## <summary>
## The name of the object being created.
## </summary>
## </param>
#
interface(`polaris_confd_var_filetrans`,
    gen_require(
        type polaris_confd_var_t;
    )
    files_var_filetrans($1, polaris_confd_var_t, $2, $3)
)'

########################################################################
## <summary>
## Make the specified domain able to work with /var/confd0
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_confd_var_dir_manage`,
    gen_require(
        type polaris_confd_var_t;
    )
    manage_dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
)'

########################################################################
## <summary>
## Execute a domain transition to run admin_tech scripts of sdwan
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_admin_tech_domtrans`,

gen_require('type polaris_admin_tech_t, polaris_admin_tech_exec_t; ')

domtrans_pattern($1, polaris_admin_tech_exec_t, polaris_admin_tech_t)
'

####################################################################################################################################
## <summary>
##    Read admin_tech files created under bootflash
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_admin_tech_data_read',
    gen_require('type polaris_admin_tech_data_t;
    ')
    read_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
')

####################################################################################################################################
## <summary>
##    Manage admin_tech files created under bootflash
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_admin_tech_data_manage',
    gen_require('type polaris_admin_tech_data_t;
    ')
    manage_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_link_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_dirs_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)

    allow $1 polaris_admin_tech_data_t:file watch;
')

####################################################################################################################################
## <summary>
##Allow domain to be started by confd with
## transition into specific service domain.
## </summary>
## <param name="domain">
## <summary>
## Type to be used to run utility.
## </summary>
## </param>
## <param name="entry_point">
## <summary>
## Type of the program to be used as an entry point to this domain.
## </summary>
## </param>
interface('polaris_confd_domain',
    gen_require('type polaris_confd_t;
    ')

domtrans_pattern(polaris_confd_t, $2, $1)
')

###########################################
## Manage confd_cli files under /tmp/confd_cli.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_confd_cli_tmp_manage',
    gen_require('type polaris_confd_cli_tmp_t;
    ')
    manage_files_pattern($1, polaris_confd_cli_tmp_t, polaris_confd_cli_tmp_t)
')

###########################################
## Manage vconfd files under /tmp/vconfd.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_vconfd_tmp_manage',

gen_require(
    type polaris_vconfd_tmp_t;
)
manage_dirs_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
manage_files_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
)

#######################################
## <summary>
##      Connect to confd port. Should be used only by utility
## domains that do not have TDL entry. Processes with TDL entries
## just need to register as confd pseudo service clients.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_confd_connect',
    polaris_ripc_confd_ipc_connect($1)
')

#######################################
## <summary>
##      Use unix stream socket created by confd as standard I/O
## descriptors. Need to look more, because so far it triggers only
##getattr, append and ioctl permissions. If it would be real standard I/O
## it would need read and write as well.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_confd_unix_stream_stdio_use',
    gen_require(
        type polaris_confd_t;
    )
    allow $1 polaris_confd_t:unix_stream_socket { append getattr ioctl };
')

########################################
## <summary>
##	Creates types and rules for a script that is started
##	by confd process.
## <summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
## </param>
## </param>
#
# template('polaris_vconfd_domain_template',
    polaris_utility_domain_template($1)
    polaris_confed_domain(polaris_$1_t, polaris_$1_exec_t)

    # access /etc/passwd
    auth_use_nsswitch(polaris_$1_t)

    # inherit unix stream as script stdio
    polaris_confed_unix_stream_stdio_use(polaris_$1_t)

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.if

No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

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dnl All rights reserved
dnl
dnl divert(-1)

include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_fc.m4')

include('polaris_max_scope.m4')

d divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_fc.m4

No license file was found, but licenses were detected in source scan.
policy_module(polarisinstallmgr, 1.0);

gen_require(`
    type polaris_install mgr_t;
  `)
polaris_chasfs_manage(polaris_install_mgr_t)
polaris_tdlresolve_read(polaris_install_mgr_t)
polaris_cpld_read(polaris_install_mgr_t)
polaris_flashlib_read(polaris_install_mgr_t)
polaris_lua_read(polaris_install_mgr_t)

logging_send_syslog_msg(polaris_install_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_install_mgr_t)

polaris_db_tdldb_dir_use(polaris_install_mgr_t)

# read all files in persisten storage
polaris_persistent_read(polaris_install_mgr_t)

# calls code_verify
polaris_code_verify_domtrans(polaris_install_mgr_t)

# calls mount command
mount_domtrans(polaris_install_mgr_t)

# allow access to gnmib image files
optional_policy(`
  polaris_gnmib_gnoi_images_read(polaris_install_mgr_t)
  `)

# LOOK AT ME: /dev/mem access restriction will be removed after
# CSCvu32649 is fixed using CSCvu32742.
# code_sign_verify accesses /dev/mem: class=chr_file, {read, open, map}
# to read the codesign key in storage
# side effects: execute is also allowed
gen_require(`
    type polaris_code_verify_t;
    type polaris_nvram_file_t;
  `)

dev_rx_raw_memory(polaris_code_verify_t)
# read access to /bootflash/nvram_config on CLI "install remove inactivate"
read_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)
getattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and getattr access of capsule-upgrade.log file
polaris_capsule_upgrade_log_use(polaris_code_verify_t)

# calls install_mgr_helper_api.sh
corecmd_exec_bin(polaris_install_mgr_t)
corecmd_exec_shell(polaris_install_mgr_t)
auth_use_nsswitch(polaris_install_mgr_t)

# /tmp/sw/inst_tmp_x handling
type polaris_install_mgr_tmp_t;
files_tmp_file(polaris_install_mgr_tmp_t)
gen_require(
    type tmp_t;
    )
manage_dirs_pattern(polaris_install_mgr_t, tmp_t, polaris_install_mgr_tmp_t)
manage_dirs_pattern(polaris_install_mgr_t, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_1")
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_2")

# writes into /bootflash/installer/watchlist
polaris_disk_install_manage(polaris_install_mgr_t)

# install_mgr_monitor.c:add_prior_watches
polaris_persistent_watch(polaris_install_mgr_t)

# watch over /tmp/patch
polaris_patch_data_watch(polaris_install_mgr_t)
polaris_repm_peer_mqipc_manage(polaris_install_mgr_t)

# watches over /tmp for /tmp/booted appearence in
# init_operation_mgmt_watches function
gen_require(
    type tmp_t;
    )
allow polaris_install_mgr_t tmp_t:dir watch;
allow polaris_install_mgr_t self:capability sys_resource;

#install_mgr writes into /bootflash/installer/watchlist and watches /bootflash/inot_fifo
polaris_install_disk_manage(polaris_install_mgr_t)

#install_mgr does search and get attribute operation on /tftp directory
gen_require("
type tftpdir_rw_t;
allow polaris_install_mgr_t tftpdir_rw_t:dir { getattr search };  

# allow read access to iso9600
fs_read_iso9660_files(polaris_install_mgr_t)

# accesses /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_install_mgr_t)

# creates files under /tmp/pkg_cs_debug through install_helper
# and verify_pkg shell function from common
polaris_pkg_cs_debug_manage(polaris_install_mgr_t)

# for pluggable FS, allow the install manager to access files on them (it needs read and
# write access).
gen_require('  
    type removable_t;
')
allow polaris_install_mgr_t removable_t:dir { getattr open read search watch };  
allow polaris_install_mgr_t removable_t:file { getattr open read };  
allow polaris_install_mgr_t removable_t:lnk_file read;

#allow install_mgr to stat caf files in /vol/harddisk/caf, /bootflash/caf, etc.
polaris_caf_tmp_files_read(polaris_install_mgr_t)

# install manager Cleanup related to inotify watches, Basically frees malloced memory
gen_require('  
    type root_t;
')
allow polaris_install_mgr_t root_t:dir watch;

# install manager access to /guestshell
polaris_guestshell_files_read(polaris_install_mgr_t)

# install manager access to /lib/systemd/systemd
polaris_init_access_check(polaris_install_mgr_t)

# install manager reads dcmlog.txt
optional_policy('  
    gen_require('  
        type polaris_fed_debug_dcmlog_t;
    ')  
    read_files_pattern(polaris_install_mgr_t, polaris_fed_debug_dcmlog_t, polaris_fed_debug_dcmlog_t)  
')

# install manager reads /firmware
polaris_firmware_read(polaris_install_mgr_t)
# install manager reads /guestshell
gen_require(''
    type polaris_guestshell_t;
')
getattr_dirs_pattern(polaris_install_mgr_t, polaris_guestshell_t, polaris_guestshell_t)

# install manager reads /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_read(polaris_install_mgr_t)

# install manager writes /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_write(polaris_install_mgr_t)

# install manager reads /tmp/sw/boot/rmonbifo during auto_upgrade
polaris_rmonbifo_tmp_read(polaris_install_mgr_t)

# install_manager reads /tmp/tmppub during auto_upgrade
polaris_btrace_tmppub_read(polaris_install_mgr_t)

# install manager accesses /tmp/rsync_log_dir during auto_upgrade
polaris_manage_rsync_tmplog_dir(polaris_install_mgr_t)

# install manager invokes mcp_chvrf.sh for rsync operations during auto_upgrade
polaris_chvrf_domtrans(polaris_install_mgr_t)
polaris_bexecute_domtrans(polaris_install_mgr_t)

ifdef(`ngwc_family','
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`mcp_family','
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`wlc_family','
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
# with "/bootflash"...this needs read and attr to access for logfile
polaris_read_user_file(polaris_install_mgr_t)
polaris_user_file_getattr(polaris_install_mgr_t)

# auto upgrade server bind operation when install manager initialize auto upgrade server
corenet_tcp_bind_polaris_autoupgrade_port(polaris_install_mgr_t)

# access to /tmp/etc
polaris_etc_list(polaris_install_mgr_t)

# read access to /tmp/etc/installer
polaris_install_tmp_read(polaris_install_mgr_t)
polaris_script_errmsg_use(polaris_install_mgr_t)

# install mgr calls install_abort.sh on rollback timer expiry
polaris_install_engine_domtrans(polaris_install_mgr_t)

#/tmp/ufs/crashinfo access
optional_policy(
    polaris_ncd_tmp_read(polaris_install_mgr_t)
')

# read/write to /bootflash/.rollback_timer/install_abort_time
polaris_rbtimer_bootflash_manage(polaris_install_mgr_t)

allow polaris_install_mgr_t self:process setpgid;

optional_policy(
    polaris_efi_files_list_dirs(polaris_install_mgr_t)
')

# walk all files on "install issu activate" and "install remove inactivate" CLI
files_read_all_files(polaris_install_mgr_t)

# install mgr file descriptor leaks into mcp_chvrf.sh for rsync operation
gen_require(
    type polaris_chvrf_t;
')
allow polaris_chvrf_t polaris_install_mgr_t:file read;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.te
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisconfd, 1.0);

gen_require(
    type polaris_confld_t;
)

# confd-startup.sh calls confd_cmd to get_phase and other cases
# that utilities under confd label connects to confd
polaris ripe_confld_ipc_connect(polaris_confld_t)

# confd needs communicate over HTTP
corenets_tcp_bind_http_port(polaris_confld_t)

# commplex_main (port 5000) is used by apache
corenets_udp_bind_commplex_main_port(polaris_confld_t)

corenets_tcp_bind_generic_node(polaris_confld_t)
allow polaris_confld_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write };

corenets_udp_bind_generic_node(polaris_confld_t)
allow polaris_confld_t self:udp_socket { bind connect create getattr getopt setopt };
corenets_udp_bind_polaris_confld_snmp_traps_port(polaris_confld_t)

logging_send_syslog_msg(polaris_confld_t)

polaris_chasfs_manage(polaris_confld_t)
polaris_btrace_data_manage(polaris_confld_t)
polaris_cpld_read(polaris_confld_t)
polaris_boot_tmp_read(polaris_confld_t)
polaris_rmonbifo_tmp_read(polaris_confld_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_confld_t)

# confd-startup.sh process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_confld_t)
corecmd_exec_bin(polaris_confld_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_confld_t)
# confdexec needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_confd_t)

allow polaris_confd_t self:capability { net_admin sys_resource };

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_confd_t)

# allow read permissions for /var/run/netns/8
fs_read_nsfs_files(polaris_confd_t)

# work with /var/confd0/ files
type polaris_confd_var_t;
files_tmp_file(polaris_confd_var_t)
polaris_confd_var_filetrans(polaris_confd_t, dir, "confd0")
manage_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_ink_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_dirs_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)

# erlang calls efile_fileinfo function (.erts/emulator/drivers/unix/unix_efile.c)
# root directory. Inside of the function code calls 'access' function that check
# access permission for R_OK and W_OK. W_OK triggers denial warning. Instead of
# granting access let's mark it as dontaudit. Erlang will be fine with this
files_dontaudit_write_root_dirs(polaris_confd_t)

# deals with /dev/shm/confd files (shared memory and pid)
type polaris_confd_shm_t;
files_tmpfs_file(polaris_confd_shm_t)

# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFDFXS_CISCO_AutoGen_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd Ndutil_lock_t;
files_lock_file(polaris_confd Ndutil_lock_t)

# confd mmap_schema utility runs from systemd unit under polaris_confd_t label
polaris_confd shm setup(polaris_confd_t)
# create ndbutil directory under /var/lock
polaris_confd Ndutil_create(polaris_confd_t)

# Allow access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_confd_t)

optional_policy(''
# confd-startup.sh on nyquist makes ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_confd_t)
')

# confd-startup.sh reads /proc/cmdline
kernel_read_system_state(polaris_confd_t)

# LOOK AT ME allow mapping of low addresses, that could be exploited
# need to understand why; unfortunately confd symbols are not decodable
# need to ask tail-f guys
ifdef(“tsn_platform”,
domain_mmap_low_uncond(polaris_confd_t)
gen_require(
    type polaris_confd_cli_t;
)
domain_mmap_low_uncond(polaris_confd_cli_t)
')
ifdef(“quake_platform”,
domain_mmap_low_uncond(polaris_confd_t)
')
polaris_mmap_schema_domtrans(polaris_confd_t)

# mmap_schema process policy
gen_require(
    type polaris_mmap_schema_t;
)
polaris_btrace_data_manage(polaris_mmap_schema_t)
polaris_chasfs_read(polaris_mmap_schema_t)
polaris_epld_read(polaris_mmap_schema_t)
polaris_flashlib_read(polaris_mmap_schema_t)
polaris_db_tdlldb_dir_use(polaris_mmap_schema_t)
polaris_confd_ndbutil_create(polaris_mmap_schema_t)
polaris_confd_shm_setup(polaris_mmap_schema_t)

# connects to confg mmap_schema is not TDL process, let
# grant explicit permission to access corresponding port
polaris_ripc_confd_ipc_connect(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:tcp_socket { connect create setopt };
polaris_socketat_nsfs_read(polaris_mmap_schema_t)

allow polaris_mmap_schema_t self:capability dac_override;
polaris_tdlresolve_read(polaris_mmap_schema_t)
polaris_confd_read(polaris_mmap_schema_t)
polaris_ndbmand_ndbutil_manage(polaris_mmap_schema_t)

optional_policy('polaris_gnmib_ndbutil_lock(polaris_mmap_schema_t, ".l.schema_use.gnmib")')

type polaris_confd_tmp_t;
files_tmp_file(polaris_confd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_confd_tmp_t, dir, "confd")
files_tmp_filetrans(polaris_confd_tmp_t, polaris_confd_tmp_t, dir, "confd")
manage_files_pattern(polaris_confd_t, tmp_t, polaris_confd_tmp_t)
manage_fifo_files_pattern(polaris_confd_t, tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_confd_t, tmp_t, polaris_confd_tmp_t)

# posix_pathconf called from get_tmpdir calls starvfs over /tmp
fs_getattr_tmpfs(polaris_confd_t)

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confd_t)
confd_exec_dmi_ports_fetch(polaris_confd_t)

# confd-startup script reads /tmp/dmi.ds_config if it exists
polaris_psd_tmp_read(polaris_confd_t)

# vip-confd-startup.sh related
# figure out BOOT_ROLE in install_util.sh
polaris_read_packages_conf(polaris_confd_t)
# touch /bootflash/sdwan/day0_oper.xml
allow polaris_confd_t self:capability dac_override;
polaris_bootflash_manage(polaris_confd_t)
#/usr/bin/sw syncdb call uuidgen
dev_read_rand(polaris_confd_t)

polaris_dmiauthd_tmp_manage(polaris_confd_t)

# PLEASE LOOK AT ME: overloaded use of /bootflash/.installer and
# /bootflash/.sdwaninstaller directories. In controller mode cedge code loopback
# mounts /bootflash/.sdwaninstallerfs file onto /bootflash/.sdwaninstaller and
# creates /bootflash/.installer symbolic link to it. As result effective
# /bootflash/.installer carries two meaning: used by polaris install infra for
# regular install operations, and keep persistent state in controller mode. For
# now /bootflash/.sdwaninstallerfs was forced to be mounted with
# polaris_disk_install_t label, so installer policy would be happy, but confd
# writes into it through /var/confd0 which is symbolic link to
# /bootflash/installer/images/pkg_boot_17.3.01/confd0 that means we need to
# grant polaris_disk_install_manage to confd which is not good thing.
# It would be much better if two different directories would be used.
polaris_disk_install_manage(polaris_confd_t)
# /var/log/confd handling

type polaris_confld_var_log_t;
logging_log_file(polaris_confld_var_log_t)
polaris_confld_var_log_manage(polaris_confld_t)

# /etc/version handling

type polaris_confld_etc_t;
files_config_file(polaris_confld_etc_t)
files_etc_filetrans(polaris_confld_t, polaris_confld_etc_t, file, "version")
gen_require(
    type etc_t;
    )
manage_files_pattern(polaris_confld_t, etc_t, polaris_confld_etc_t)

# "/usr/bin/sw synccdb" calls "confd_cmd -p 3010 -o -c "delete /software""
# that invokes /usr/binos/conf/install_assist.sh
polaris_install_engine_domtrans(polaris_confld_t)

# confd calls /usr/bin/sw that creates temp files in /tmp/cedge_sw_log
# since it runs under same domain make sure that cedge_sw_log gets
# right label
files_tmp_filetrans(polaris_confld_t, polaris_confld_tmp_t, dir, "cedge_sw_log")

# /tmp/confd_booted created by vip-confd-start
files_tmp_filetrans(polaris_confld_t, polaris_confld_tmp_t, file, "cedge_booted")

# runs flashutils to read rommon variables
polaris_flashlib_read(polaris_confld_t)

allow polaris_confld_t self:capability fowner;

optional_policy(
    # work with /tmp/econfd2sysmgr-ipc
    polaris_econfd2sysmgr_tmp_manage(polaris_confld_t)
    )

# confdexec calls dmidecode to get bios-vendor
dmidecode_domtrans(polaris_confld_t)

optional_policy(
    # polaris_sw.sh called in confd context accesses
    # /etc/viptela/controller_version
    polaris_cedge_etc_manage(polaris_confld_t)
    )

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle
# through TDL pseudo services, that one it not
corenet_tcp_connect_polaris_confed_maapi_port(polaris_confed_t)

# confd starts cmdptywrapper utility through erl_child_setup
# that allocates free pty device using operations on /dev/ptms
allow polaris_confed_t self:capability { fsetid setgid };
term_getattr_ptys(polaris_confed_t)
term_setattr_generic_ptys(polaris_confed_t)
term_use_generic_ptys(polaris_confed_t)
term_use_ptmx(polaris_confed_t)

# uses nice utility to start misc scripts
allow polaris_confed_t self:process setsched;

# allow netconf_callhome to execute ncshhd under ncshhd domain
polaris_ncshhd_mgmt_domtrans(polaris_confed_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket
polaris_dmi_dmiauthd_dgram_send(polaris_confed_t)

# the default port for NETCONF Call Home (SSH) is 4334,
# and it is configurable by users
corennet_tcp_connect_all_ports(polaris_confed_t)
# by default the port is selected by system, and it is configurable by users
corennet_tcp_bind_generic_port(polaris_confed_t)
# netconf_callhome may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_confed_t)

# cmdwrapper utility that started by confd calls xstat
allow polaris_confed_t self:capability setuid;

# label for /tmp/vconfd temporary files created by binos/viptela/vconfd/*.sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh
type polaris_vconfd_tmp_t;
files_tmp_file(polaris_vconfd_tmp_t)
# confd writes /tmp/vconfd/USID.XXX and /tmp/vconfd/THANDLE.YYY files
polaris_vconfd_tmp_manage(polaris_confed_t)

# label for /tmp/confd_cli temporary files created by execute_confd_cli.sh
type polaris_confed_cli_tmp_t;
files_tmp_file(polaris_confed_cli_tmp_t)

# execute_confd_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans({ polaris_confed_t polaris_confed_cli_t }, polaris_confed_cli_tmp_t, dir, "confd_cli")

# execute_confd_cli.sh script policy
polaris_utility_domain_template(confd_cli)
polaris_bexecute_domain(polaris_confed_cli_t, polaris_confed_cli_exec_t)
polaris_chasfs_read(polaris_confd_cli_t)
corecmd_exec_shell(polaris_confd_t)
corecmd_exec_bin(polaris_confd_cli_t)
auth_use_nsswitch(polaris_confd_cli_t)
# bash get_tmpdir stats /tmp directory
fs_getattr_tmpfs(polaris_confd_cli_t)

polaris_confd_cli_tmp_manage(polaris_confd_cli_t)
polaris_vconfd_tmp_manage(polaris_confd_cli_t)
telnet_use_ptys(polaris_confd_cli_t)
	polaris_ripc_confd_ipc_connect(polaris_confd_cli_t)

# execute_confd_cli.sh -a -g PRIV00 runs grep over /bootflash/sdwan/.init_stage
polaris_bootflash_read(polaris_confd_cli_t)

# execute_confd_cli.sh writes to "pipe:[24719894]"
polaris_dmi_ncsshd_fwd_use_fifo(polaris_confd_cli_t)
# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
allow polaris_confd_cli_t polaris_dmi_ncsshd_fwd_t:tcp_socket ioctl;

# admin-tech : scripts in binos/viptela/vconfd/*admin_tech*.sh
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"

polaris_vconfd_domain_template(admin_tech)

# /bin/bash /usr/binos/conf/bshell.sh -S -c
# show platform hardware qfp active infrastructure shared-memory
# process cpp-control-pro.....
polaris_bexecute_domtrans(polaris_admin_tech_t)

# admin-tech launches "ps" via scripts
domain_read_all_domains_state(polaris_admin_tech_t)

# See tracelogs accessed by vconfd_script_polaris_admin_tech_child.sh
polaris_btrace_data_manage_all(polaris_admin_tech_t)

# various utilities like "find", "memaudit", etc needs this
files_getattr_all_files(polaris_admin_tech_t)
files_getattr_all_dirs(polaris_admin_tech_t)
fs_getattr_all_fs(polaris_admin_tech_t)
files_read_all_files(polaris_admin_tech_t)

# '/bin/bash /usr/bin/memaudit' needs access to /proc/kmsg, /proc/mdstat, etc
dev_getattr_mtrr_dev(polaris_admin_tech_t)
kernell_read_all_proc(polaris_admin_tech_t)
dev_getattr_loop_control(polaris_admin_tech_t)

# infra/memaudit/memaudit uses dmesg
dmesg_domtrans(polaris_admin_tech_t)
gen_require('    type dmesg_t;
')
polaris_confd_unix_stream_stdio_use(dmesg_t)

# infra/memaudit/memaudit uses mount
mount_domtrans(polaris_admin_tech_t)

# infra/memaudit/memaudit uses fdisk
fstools_domtrans(polaris_admin_tech_t)
polaris_nvram_read(polaris_admin_tech_t)
polaris_nvram_getattr(polaris_admin_tech_t)

# infra/memaudit/memaudit writes to /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_admin_tech_t)

# memaudit and smap needs 'getattr', 'search' on sysctl_irq_t:dir
kernel_read_irq_sysctls(polaris_admin_tech_t)

# du -b -s /tmp/cc /tmp/rp /tmp/fp
files_getattr_all_sockets(polaris_admin_tech_t)
files_getattr_all_pipes(polaris_admin_tech_t)

# df -Th -BM needs access to /run/nts/2
fs_getattr_nsfs_files(polaris_admin_tech_t)

# ls /tmp/ufs/harddisk
# maapi --clicmd --get-io --no-hidden show configuration commit list
corecmd_exec_bin(polaris_admin_tech_t)

# bash vconfd_script_admin_tech.sh -u root -c cli executes:
# 1. map on /etc/passwd
auth_map_passwd(polaris_admin_tech_t)
# 2. hostname
hostname_exec(polaris_admin_tech_t)
# 3. journalctl
journalctl_domtrans(polaris_admin_tech_t)

# journalctl writes to /tmp/vm4-bootuplog-20200903-175223-UTC.log
# see vconfd_script_polaris_admin_tech_child.sh
gen_require('    type journalctl_t;
manage_files_pattern(journalctl_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)
polaris_confdir_unix_stream_stdio_use(journalctl_t)

# admin_tech reads /tmp/chassis/cpld/chasfs/board_vtype on crankshaft(sdwan)
polaris_chasfs_read(polaris_admin_tech_t)

# find -H /misc/scratch -name MEMORY_LOG_*.text
# memaudit writes to /bootflash/MEMORY_LOG_2020-07-28-01:32:11.text
# We also have `mv -Z /bootflash/admintech /var/tech/ios`
# admin_tech watches /tmp/chassis/local/rp/chasfs/etc/ios_admintech_done
type polaris_admin_tech_data_t;
polaris_disk_type(polaris_admin_tech_data_t)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, dir)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, file)
polaris_admin_tech_data_manage(polaris_admin_tech_t)

# sdwan_tech_support.sh -o /var/tech/binos; work with /var/tech/ files
type polaris_admin_tech_var_t;
files_tmp_file(polaris_admin_tech_var_t)
files_var_filetrans(polaris_admin_tech_t, polaris_admin_tech_var_t, dir, "tech")
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)
manage_dirs_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)

# vconfd_script_polaris_admin_tech.sh invokes vlog "Requested admin-tech initiated."
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket of type polaris_admin_tech_t
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_admin_tech_t)

# maapi --cliget paginate: this performs connect to confd socket
polaris_rico_confid_ipc_connect(polaris_admin_tech_t)

# reads /tmp/chassis/cpld/chasfs/board_vtype
# on c8kv cpld is at /sys/bus/platform/devices/cpld which has sysfs_t LABEL
polaris_cpld_read(polaris_admin_tech_t)

# handle various files created under /tmp
type polaris_admin_tech_tmp_t;
files_tmp_file(polaris_admin_tech_tmp_t)
files_tmp_filetrans(polaris_admin_tech_t, polaris_admin_tech_tmp_t, file)
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)

# As part of admin-tech generation on cEdges, vconfd_script_polaris_admin_tech.sh
# invokes vconfd_script_polaris_admin_tech_child.sh which in turn invokes the
# script sdwan_tech_support.sh. The sdwan_tech_support.sh passes the file
# /tmp/sdwan_tech_support_command_file_out.txt to a bshell instance. The bshell
# instance does open operation on the file. So bshell needs open allow
# policy for /tmp/sdwan_tech_support_command_file_out.txt
gen_require(
    type polaris_bshell_t;
')
allow polaris_bshell_t polaris_admin_tech_tmp_t:file open;

# maapi needs this.
allow polaris_admin_tech_t self:tcp_socket { getopt setopt create connect read write };

# tar --ignore-failed-read -czf /home/vmanage-admin/vm4-20200903-055157-admin-tech.tar.gz
#   /tmp/fp/trace/cpp_cp_F0-0_TAN.20041_0.20
allow polaris_admin_tech_t self:capability dac_override;

# awk /^Shared/ {v += $2} END { print v} /proc/6384/smaps
allow polaris_admin_tech_t self:capability sys_ptrace;

# 'top -n1 -b' creates /.config dir
# TODO/LOOKATME: selinux team to review handling of this issue in a
# common way for invoking top
allow polaris_admin_tech_t root_t:dir create;

# "show installerfs" is invoked by vconfd_script_admin_tech_common.sh
# this invokes vconfd_script_show_installerfs.sh via confd
# let's execute this under install_show domain
polaris_install_show_domtrans(polaris_confd_t)

# create_bootflash_snapshot() performs 'ls -l /bootflash/.installer'
polaris_disk_install_read(polaris_admin_tech_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_tech_t self:process setfscreate;

# rm -rf $collated_ra (collated_log_*)

#Nutella-XE - Vedge image install
#/bin/sh /tmp/sw/rp/0/0/rp_security/mount/bin/sw synccdb
#mount -t vfat /dev/mmcblk0gp0p1 /gpp
mount_domtrans(polaris_confd_t)

#df /bootflash
fstools_domtrans(polaris_confd_t)

#Nutella-XE - Vedge image activate
#/usr/binos/bin/flashutil --command unsetvar --name MIG_INT_STATE
polaris_flashlib_write(polaris_confd_t)
# permit comm="ps" to "getattr" on dev="devtmpfs" for polaris_admin_t
term_getattr_unallocated_tty(term_getattr_unallocated_tty(polaris_admin_t_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_t_t)

# permit to access/unlink /bootflash by polaris_admin_t
polaris_bootflash_manage(polaris_admin_t)

# vconfd_script_admin_tech.sh executes 'top -n1 -b' which creates /.config dir
gen_require(‘
  type admin_home_t;
’)
allow polaris_admin_t_t admin_home_t:dir { add_name create write };

# vconfd_script_admin_tech.sh sources vconfd_script_cli_session.sh and calls
# start_cli_session() which writes to /tmp/vconfd/USID.XXX,
# /tmp/vconfd/THANDLE.YYY and /tmp/vconfd/start_cli.XXXXXXXXX
polaris_vconfd_tmp_manage(polaris_admin_t)

# work with "/tmp/ftp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_t)

# work with " /tmp/ftp/trace/fifo/pvp_sh%fp_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_t)

# access to tunnel interface from snapshot_cdb()
corenet_rw_tun_tap_dev(polaris_confd_t)

# access to /tmp/bootstrap/sdwan/ciscosdwan_cloud_init.cfg
init_read_script_tmp_files(polaris_confd_t)

# "vconfd_notifier security-clear-installed-cert" reads
#/var/run/netns/default which is symlinked to /proc/1/ns/net
polaris_cedge_reset_ns(polaris_confd_t)

# allow /usr/bin Os/conf/execute_confd_cli.sh to access polaris_disk_install_t
polaris_disk_install_read(polaris_confd_cli_t)

# vconfd script ends up cleaning core files, most likely its
# vconfd_script_polaris_admin_tech_child.sh, so it needs read/write
# permission to polaris_core_file_t files.
polaris_core_file_manage(polaris_admin_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.te
No license file was found, but licenses were detected in source scan.

#
# OWNERS - Code Ownership
#
# For information on the purpose and format of this file see:
#
# Copyright (c) 2019-2021 by Cisco Systems, Inc.
# All rights reserved.
#
#
* @csg/polaris-selinux-dev

#iox team related files
polariscontainer* @csg/polaris-selinux-dev @csg/iox-selinux
polariscaf* @csg/polaris-selinux-dev @csg/iox-selinux
polarisgsdrp* @csg/polaris-selinux-dev @csg/iox-selinux
polarisioxman* @csg/polaris-selinux-dev @csg/iox-selinux
polarisvman* @csg/polaris-selinux-dev @csg/iox-selinux

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/OWNERS
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#
#
### <summary>Polaris lm Policy Rules.</summary>

#################################################################
### <summary>
###   Read files of type polaris_lm_tmp_t (e.g., /tmp/iosd_level)
### </summary>
### <param name="domain">
###   Domain allowed access.
### </param>
#
# interface('polaris_lm_tmp_read',
#   gen_require(
#     type polaris_lm_tmp_t;
#   )}
read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.if
No license file was found, but licenses were detected in source scan.

# # August 2017, Shawn Lu
#
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#

## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismnspd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky

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define(`polaris_database_aux',`dnl

########################################
##	Use $2 database.
##	<summary>
##	Domain allowed access.
##	<param name="domain">
##	<summary>
##	Domain allowed access.
##	</param>
##	<infoflow type="none"/>
#

type $2;
')

polaris_tdldb_use(dollarsone, $2, $3)
')

define(`polaris_database',`dnl
polaris_database_aux(database_stem($1), database_label($1), $1)dnl
'

define('polaris_database_process',"")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_if.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarishm, 1.0);

gen_require('

    type polaris_hm_t;

')

    polaris_btrace_data_manage(polaris_hm_t)
    polaris_chasfs_manage(polaris_hm_t)
    polaris_tdlresolve_read(polaris_hm_t)
    polaris_tdlldb_list_dirs(polaris_hm_t)
    polaris_cpld_read(polaris_hm_t)
    polaris_lua_read(polaris_hm_t)
    polaris_flashlib_read(polaris_hm_t)

    polaris_ripc_sman_ui_serv_connect(polaris_hm_t)

    polaris_db_tdlldb_dir_use(polaris_hm_t)

    files_getattr_all_files(polaris_hm_t)
    files_getattr_all_dirs(polaris_hm_t)
    gen_require('

        attribute non_security_file_type;

    ')
    allow polaris_hm_t { non_security_file_type }:dir list_dir_perms;

    # hman need to read proc for all processes to collect CPU
    # utilization information
    domain_read_all_domains_state(polaris_hm_t)
    domain_signull_all_domains(polaris_hm_t)

    kernel_read_system_state(polaris_hm_t)
# hman needs to run "df /dev/shm" command
corecmd_exec_bin(polaris_hm_t)
corecmd_exec_shell(polaris_hm_t)

# hman needs to operate on all maroon files
polaris_maroon_data_manage_all(polaris_hm_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_hm_t)

fs_getattr_tmpfs(polaris_hm_t)

# work with /tmp files (/tmp/myhostname)
type polaris_hm_tmp_t;
files_tmp_file(polaris_hm_tmp_t)
manage_files_pattern(polaris_hm_t, tmp_t, polaris_hm_tmp_t)
files_tmp_filetrans(polaris_hm_t, polaris_hm_tmp_t, file, "myhostname")

allow polaris_hm_t self:capability { chown fsetid dac_override kill sys_resource sys_ptrace }
allow polaris_hm_t self:process setsched;
allow polaris_hm_t self:unix_dgram_socket create;
allow polaris_hm_t self:cap_users { kill sys_ptrace }

polaris_boot_tmp_read(polaris_hm_t)

# Allow write to flash. Needed for usb disable feature
ifdef(`ngwc_family`,`
      polaris_flashlib_write(polaris_hm_t)
  `)

# "show platform software mount RP active" command needs attributes of
# all file systems
fs_getattr_all_fs(polaris_hm_t)
# above show command accesses /var/run/netns/2
fs_read_nsfs_files(polaris_hm_t)
# reads /scratch link which is labeled as polaris_disk_bootflash_t
polaris_disk_bootflash_read_lnk(polaris_hm_t)
polaris_disk_harddisk_read_lnk(polaris_hm_t)

# needed for "show platform software bound-uds RP active"
kernel_read_network_state(polaris_hm_t)

# "show rom-monitor R0" needs content of /proc/rmonbifo/bootver;
# please refer to hman_ui.tpp file
polaris_proc_rmonbifo_read(polaris_hm_t)

# "show plat soft yang-management process r0" invokes hm_show_yang_proc_cb;
# "show plat soft iox-service" invokes hm_iox_srvc_show_cb;
They invoke "ps -C" which needs access to /sys/devices/system/cpu/online
# TODO: should we replace system() with something like hm_get_procs_with_name_running
dev_read_sysfs(polaris_hm_t)
# "show platform software yang-management process state" invokes /bin/mcp_pkg_wrap,
# which sources /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_hm_t)
# show iox-service requires reading of libvirt_ver of created under CAF context
optional_policy(
  polaris_caf_tmp_files_read(polaris_hm_t)
')
# hardcoded policy for hm to df, per Victor
optional_policy(
  gen_require(
    type polaris_iosd_portal_dmi_lipc_t;
    type polaris_iosd_portal_app_lipc_t;
  )
  allow polaris_hm_t { polaris_iosd_portal_dmi_lipc_t polaris_iosd_portal_app_lipc_t }:sock_filegetattr;
')
# during "show version installed" command
# "grep -q srdriver /tmp/sw/rp/local/0/rp_base/iso" which is link to the universal image
polaris_bootflash_read(polaris_hm_t)
# this is for calcsha.sh (invoked by the command above) but might work for others too
polaris_install_engine_domtrans(polaris_hm_t)
# this if for hman to read and delete /tmp/version.info created by calcsha.sh in prev context type
polaris_install_tmp_read(polaris_hm_t)
gen_require(
  type polaris_install_tmp_t;
')
allow polaris_hm_t polaris_install_tmp_t:fileunlink;

# need open, read on /bootflash/packages.conf (grep sha1sum: /tmp/packages.conf)
polaris_read_packages_conf(polaris_hm_t)

# This is created for hman to grant it access to /bootflash/topnmemuse
polaris_bootflash_manage(polaris_hm_t)

# read /tmp/pkg_summary.txt file
polaris_pkg_summary_tmp_read(polaris_hm_t)
polaris_zram_getattr(polaris_hm_t)

optional_policy(
  polaris_ssd_auth_domtrans(polaris_hm_t)
')
optional_policy(
  polaris_ssdUnmountDomtrans(polaris_hm_t)
)
optional_policy('polaris_confdomtrans(polaris_hm_t)')

# show platform software process slot R0 monitor
# mcp_monitor_process_batchmode.sh
#/bin/sh /usr/bin/os/conf/bexec.sh -c /usr/bin/os/conf/mcp_monitor_process_batchmode.sh -n 1 -d 3 -l 0

polaris_utility_domain_template(monitor_process)
polaris_bexecute_domtrans(polaris_hm_t)
polaris_bexecute_domain(polaris_monitor_process_t, polaris_monitor_process_exec_t)

# mcp_monitor_process_batchmode.sh calls "top" command
# "top" needs read/getattr access of various files in the system
domain_read_all_domains_state(polaris_monitor_process_t)

# "top" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_process_t)

# "top" need read access to /proc/meminfo, /proc/stat
kernel_read_system_state(polaris_monitor_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_monitor_process_t)
corecmd_exec_bin(polaris_monitor_process_t)

gen_require('type admin_home_t;')
#top -b -n3 -d3 needs permission to create dir /.config ,write
to files and add files
allow polaris_monitor_process_t admin_home_t:dir { add_name create write };
allow polaris_monitor_process_t self:capability sys_ptrace;

pkg_summary.sh : show version R0 installed
#/bin/bash /usr/bin/os/conf/pkg_summary.sh -o /tmp/pkg_summary.txt -d model -P

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polaris_utility_domain_template(pkg_summary)

polaris_pkg_summary_domtrans(polaris_hm_t)

# it executes find /tmp/sw -maxdepth 5 -mindepth 5 -name mount
files_getattr_all_dirs(polaris_pkg_summary_t)
files_getattr_all_files(polaris_pkg_summary_t)
files_read_all_dirs_except(polaris_pkg_summary_t)

polaris_chasfs_read(polaris_pkg_summary_t)
polaris_cpld_read(polaris_pkg_summary_t)
polaris_use_btrace_fifo(polaris_pkg_summary_t)
polaris_rmonfifo_tmp_read(polaris_pkg_summary_t)
polaris_btrace_data_manage(polaris_pkg_summary_t)
polaris_boot_tmp_read(polaris_pkg_summary_t)

# need open, read on /bootflash/debug.conf
polaris_read_debug_conf(polaris_pkg_summary_t)

polaris_read_packages_conf(polaris_pkg_summary_t)

allow polaris_pkg_summary_t self:capability sys_resource;

corecmd_exec_bin(polaris_pkg_summary_t)

auth_use_nsswitch(polaris_pkg_summary_t)

polaris_disk_crashinfo_getattr(polaris_pkg_summary_t)

# read /proc/cmdline
kernel_read_system_state(polaris_pkg_summary_t)

# handle /tmp/pkg_summary.txt file
type polaris_pkg_summary_tmp_t;
files_tmp_file(polaris_pkg_summary_tmp_t)
files_tmp_filetrans(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, file)
manage_files_pattern(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)

# pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/binos/conf/pkg_to_tree.sh -c /tmp/packages.conf
#   -t /tmp/show_patch_provision_temp -p /tmp/sw/ilos
#   -r /tmp/show_provision_temp -a -q

# pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/binos/conf/pkg_to_tree.sh -c /tmp/packages.conf
#   -t /tmp/show_patch_provision_temp -p /tmp/sw/ilos
#   -r /tmp/show_provision_temp -a -q
polaris_utility_domain_template(pkg_to_tree)

gen_require('
  type unconfined_service_t;
  
  polaris_pkg_to_tree_domtrans((unconfined_service_t polaris_hm_t))

  files_getattr_all_files(polaris_pkg_to_tree_t)
  polaris_harddisk_read(polaris_pkg_to_tree_t)
  polaris_cpld_read(polaris_pkg_to_tree_t)
  polaris_use_btrace_fifo(polaris_pkg_to_tree_t)
  polaris_rmonbifo_tmp_read(polaris_pkg_to_tree_t)
  polaris_btrace_data_manage(polaris_pkg_to_tree_t)
  polaris_boot_tmp_read(polaris_pkg_to_tree_t)
  polaris_patch_data_manage(polaris_pkg_to_tree_t)

  # if being executed on other node, telnet /dev/ptsN might be used
  # as stdin/stdout
  telnet_use_ptys(polaris_pkg_to_tree_t)

  # pkg_to_tree.sh creates/deletes directories and files under
  # /tmp/show_provision_temp
  type polaris_show_provision_tmp_t;
  files_tmp_file(polaris_show_provision_tmp_t)
  polaris_show_provision_temp_manage(polaris_pkg_to_tree_t)

  # pkg_to_tree.sh verifies each package as it is mounted
  polaris_code_verify_domtrans(polaris_pkg_to_tree_t)

  corecmd_exec_bin(polaris_pkg_to_tree_t)

  polaris_disk_crashinfo_getattr(polaris_pkg_to_tree_t)

  # manage the /tmp/lf symbolic link
  type polaris_pkg_to_tree_tmp_t;
  files_tmp_file(polaris_pkg_to_tree_tmp_t)
  files_tmp_filetrans(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, lnk_file, "lf")
  manage_lnk_files_pattern(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, polaris_pkg_to_tree_tmp_t)

  # permit pkg_to_tree.sh mounting to use conf/pkg files in bootflash
  polaris_bootflash_read(polaris_pkg_to_tree_t)
  polaris_disk_bootflash_search(polaris_pkg_to_tree_t)

  # we want to read the existing mounts in chasfs
  polaris_chasfs_read(polaris_pkg_to_tree_t)

  # pkg_to_tree.sh interfaces with installer data, including ISSU files
  polaris_install_tmp_log_write(polaris_pkg_to_tree_t)
polaris_sw_data_manage(polaris_pkg_to_tree_t)
polaris_read_packages_conf(polaris_pkg_to_tree_t)
polaris_issu_tmp_files_manage(polaris_pkg_to_tree_t)
polaris_install_tmp_manager(polaris_pkg_to_tree_t)

# allow pkg_to_tree.sh to do the loopback mounts of packages and manage
# mount links in tmp. This includes mapping mounted passwd file and
# mounting sysfs. This is also needed to mount /mnt/sd3/iox_alt_hdd.dsk
mount_domtrans(polaris_pkg_to_tree_t)
auth_map_passwd(polaris_pkg_to_tree_t)
dev_list_sysfs(polaris_pkg_to_tree_t)
allow polaris_pkg_to_tree_t sysfs_t:file { getattr open read };
allow polaris_pkg_to_tree_t tmp_t:link_file [ create rename unlink ];

# when expanding/installing super images, pkg_to_tree uses install_engine_exec_t
# utilities like issu_check
polaris_install_engine_domtrans(polaris_pkg_to_tree_t)

########################################################################
# misc hman cli(s)
########################################################################

# hman needs access to /bootflash/.issu_loc_lock
polaris_issu_files_manage(polaris_hm_t)

# hman process creates/deletes directories and files under
# /tmp/show_provision_temp
polaris_show_provision_temp_manager(polaris_hm_t)

# signal send during show platform software process slot R0 monitor
polaris_send_signal_to_bexecute(polaris_hm_t)

polaris_dyncfg_tmp_read(polaris_hm_t)

polaris_disk_crashinfo_getattr(polaris_hm_t)

# setting up /dev/ttyS0 speed from hman_handle_console_baud_rate_change
term_use_unallocated_ttys(polaris_hm_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_hm_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_hm_t)

# hman starts agetty-iosd.service in case of nyquist stack
getty_(systemctl(polaris_hm_t)

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# This block is policies for "sh pla so filesystem bootflash: de" CLI
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polaris_utility_domain_template(cli_fs_cmds)

gen_require('  
  type polaris_bexecute_t;
')
polaris_bexecute_domtrans(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_bexecute_t)
telnet_use_ptys(polaris_cli_fs_cmds_t)

# Blanket permission for disk management for cli_fs_cmds (for show/erase fs)
polaris_persistent_manage(polaris_cli_fs_cmds_t)
# permission to manage removable ( seems pretty safe )
polaris_removable_manage(polaris_cli_fs_cmds_t)
polaris_getattr_removable(polaris_cli_fs_cmds_t)
fs_read_removable_syminks(polaris_cli_fs_cmds_t)
# btrace.sh needs these
polaris_boot_tmp_read(polaris_cli_fs_cmds_t)
polaris_btrace_tmppub_read(polaris_cli_fs_cmds_t)
# this is for NFS access mounted in a dir of ncd context
optional_policy('  
  polaris_ncd_tmp_read(polaris_cli_fs_cmds_t)
')

# need to access pipes like pipe:[107820]
polaris_hman_use_fifo(polaris_cli_fs_cmds_t)

# df or stat the mount point
fs_getattr_nfs(polaris_cli_fs_cmds_t)
# mkfs permissions via domtrans
fs_tools_domtrans(polaris_cli_fs_cmds_t)
# runs NFS exportfs ( copied from ncd )
rpc_read_exports(polaris_cli_fs_cmds_t)
rpc_write_exports(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data_dir(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data(polaris_cli_fs_cmds_t)
fs_rw_nfsd_fs(polaris_cli_fs_cmds_t)
kernell_mrp_nfs_syste(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
# rsync/remote_format perms ( rsync borrowed from polariscrft.te )
polaris_udev_tmp_list_dirs(polaris_cli_fs_cmds_t)
gen_require('  
  type rsync_exec_t;
  type rsync_port_t;
  type rsync_tmp_t;
')
allow polaris_cli_fs_cmds_t rsync_port_t:tcp_socket name_connect;
allow polaris_cli_fs_cmds_t rsync_exec_t:file { execute execute_no_trans getattr map read };
allow polaris_cli_fs_cmds_t rsync_tmp_t:file open;

allow polaris_cli_fs_cmds_t self:capability { chown fsetid setgid };

# Need to access /proc/self/fd/1 by platform_fs_operation.sh which is invoked by
# /bin/bash/usr/bin/os/conf/mcp_cli_fs_cmds.sh show bootflash:all
fs_associate_proc(polaris_cli_fs_cmds_t)

polaris_cli_fs_cmds_domtrans(polaris_hm_t)
corecmd_exec_bin(polaris_cli_fs_cmds_t)
polaris_cpld_read(polaris_cli_fs_cmds_t)
polaris_chasfs_manage(polaris_cli_fs_cmds_t)
polaris_use_btrace_fifo(polaris_cli_fs_cmds_t)
polaris_rmonbifo_tmp_read(polaris_cli_fs_cmds_t)

auth_use_nsswitch(polaris_cli_fs_cmds_t)

# allow polaris_cli_fs_cmds_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_cli_fs_cmds_t)
# watch on modify /tmp/udev/etc/udev/usbflash1-2/udev-info for remote/stby usb device
polaris_udev_tmp_watch(polaris_cli_fs_cmds_t)

# allow to run mount in its own domain
mount_domtrans(polaris_cli_fs_cmds_t)
# runs systemctl to remount file system.
# usb[01] fs_target remount service used.
systemd_exec_systemctl(polaris_cli_fs_cmds_t)
systemd_config_generic_services(polaris_cli_fs_cmds_t)

# allow to run readlink -f /dev/bootflash1
storage_getattr_fixed_disk_dev(polaris_cli_fs_cmds_t)

# allow "format" CLI to add/delete links in /dev/, and /; e.g., /dev/harddisk1 /harddisk
ifdef(`crankshaft_family',`
gen_require(

    type device_t;
    type root_t;
    type udev_t;
)

 ifdef /dev/harddisk1 /harddisk1 -> /dev/dm-0
 filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")

 ifdef /dev/harddisk -> /misc/scratch
 filetrans_pattern(polaris_cli_fs_cmds_t, device_t, fixed_disk_device_t, lnk_file, "harddisk")

 manage_link_files_pattern(polaris_cli_fs_cmds_t, fixed_disk_device_t, fixed_disk_device_t)
seutil_domtrans_setfiles(polaris_cli_fs_cmds_t)
polaris_hman_use_fifo(setfiles_t)
# need open, read on /bootflash/packages.conf
polaris_read_packages_conf(polaris_cli_fs_cmds_t)

# "sed" needs access to /proc/cmdline
kernel_read_system_state(polaris_cli_fs_cmds_t)

# work with /tmp files (/tmp/fs_lock_bootflash)
type polaris_cli_fs_cmds_tmp_t;
gen_require(
    type tmp_t;
)
files_tmp_file(polaris_cli_fs_cmds_tmp_t)
manage_files_pattern(polaris_cli_fs_cmds_t, tmp_t, polaris_cli_fs_cmds_tmp_t)
files_tmp_filetrans(polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_tmp_t, file)

"find /vol/disk0/caf" when show CLI is executed
polaris_caf_tmp_files_read(polaris_cli_fs_cmds_t)

# Caf and IOxMan-CLI interaction
polaris_caf_tmp_files_manage(polaris_cli_fs_cmds_t)

# mcp_cli_fs_cmds.sh show webui: all runs df -P /webui
fs_getattr_tmpfs(polaris_cli_fs_cmds_t)

polaris_persistent_getattr(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t self:capability dac_override;
allow polaris_cli_fs_cmds_t self:dir { add_name write };

# allow caf access to mcp_cli_fs_cmds.sh for fsck on ngwc platforms
ifdef(`ngwc_family',`
domain_read_all_domains_state(polaris_cli_fs_cmds_t)
polaris_caf_domtrans(polaris_cli_fs_cmds_t)
polaris_caf_files_read(polaris_cli_fs_cmds_t)
dev_read_sysfs(polaris_cli_fs_cmds_t)
')

###############################################################################
# fsck CLI using mcp_cli_fs_cmds.sh as tested on sparrow
###############################################################################
# allow fsck in mcp_cli_fs_cmds.sh to execute udev in the udev domain
udev_domtrans(polaris_cli_fs_cmds_t)
# allow cryptsetup to be executed
lvm_domtrans(polaris_cli_fs_cmds_t)
# allow fsck to run on bootflash
polaris_nvram_getattr(polaris_cli_fs_cmds_t)

# during SDWAN admin-tech generation, fs_display_*() in mcp_cli_fs_cmds.sh is
# invoked; this tries to find files like /bootflash/tracelogs/cia-netcon* with
# LABEL polaris_confd_var_log_t
polaris_confd_var_log_read(polaris_cli_fs_cmds_t)

# hm calls df to figure out tmpfs size, on some platforms
# where configfs is mounted it needs statfs access to it
gen_require('    type configfs_t;
')
allow polaris_hm_t configfs_t:dir getattr;

# hm populates vrf_shm on behalf of iosd, and may create
# and delete vrf-based netns
polaris_vrf_netns_manage(polaris_hm_t)
fsUnmount_nsfs(polaris_hm_t)

#read udev_info
polaris_uddev_tmp_read(polaris_hm_t)

gen_require('    type rsync_t;
')
allow rsync_t polaris_hm_t:fifo_file read;

# show platform software yang-management process monitor
# mcp_monitor_dmi_proc.sh
# /bin/bash /bin/mcp_pkg_wrap rp_daemons /usr/binos/conf/mcp_monitor_dmi_proc.sh
polaris_utility_domain_template(monitor_dmi_process)
polaris_bexecute_domain(polaris_monitor_dmi_process_t, polaris_monitor_dmi_process_exec_t)

# mcp_monitor_dmi_proc.sh calls "ps" command
# "ps" needs read/getattr access of various files in the system
# ps -eo comm,pid,s.vsize,rss.size,cpu,mem,etime --sort=comm
domain_read_all_domains_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /proc/uptime
kernel_read_system_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_dmi_process_t)
# "ps" need read access to /proc
kernel_list_proc(polaris_monitor_dmi_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_dmi_process_t)

# executes head command
corecmd_exec_bin(polaris_monitor_dmi_process_t)

# sources cyan_api.sh
files_exec_usr_files(polaris_monitor_dmi_process_t)

# /bin/bash /tmp/sw/0/0/0/rp_daemons/mount/0rbinos/conf/mcp_monitor_dmi_proc.sh
corecmd_shell_entry_type(polaris_monitor_dmi_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[79843]"
polaris_hman_use_fifo(polaris_monitor_dmi_process_t)

# read /etc/init.d/quad_sup_usb_infra.sh
init_read_script_files(polaris_cli_fs_cmds_t)
# This triggers access to /tmp/flashlock and /dev/sda3
polaris_flashlib_lock(polaris_cli_fs_cmds_t)
# allow flash utility
polaris_flashlib_read(polaris_cli_fs_cmds_t)
# /sys/bus/usb/drivers/usb/*/authorized is accessed (read and write) from hman.
# For USB disable feature across all ngwc platforms needs authorized file to
# be accessed.
ifdef(`ngwc_family',`
    gen_require(`
        type sysfs_t;
        ')
    allow polaris_hm_t sysfs_t:file create;
    dev_rw_sysfs(polaris_hm_t)
    dev_manage_sysfs_dirs(polaris_hm_t)
    ')

# work with /tmp files (/tmp/usb-disable)
polaris_iosd_usb_disable_tmp_manage(polaris_hm_t)

# need access to tmp files created under issu directory
polaris_issu_tmp_files_read(polaris_hm_t)

# HMMAN calls for checking database compactability
# tdllib_db_epoch_test is requires access to /tmp/issu/provision/sw-running.txt
polaris_install_tmp_read(polaris_hm_t)

optional_policy('  polaris_efi_files_list_dirs(polaris_cli_fs_cmds_t)
# Execute hdparam in its own domain
fstools_domtrans(polaris_hm_t)

# Allow polaris_hm to get attributes of fixed disk
storage_getattr_fixed_disk_dev(polaris_hm_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device
polaris_read_ssd_tmp_files(polaris_hm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.te
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#

## <summary>Polaris ngwc_tbl_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmngr.if
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#

## <summary>Polaris polarisbtsman Policy Rules.</summary>

#******************************************************************************
## <summary>
## Execute fs tools in the btrace_rotate domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_btrace_rotate_domtrans',`
gen_require("
type polaris_btman_t, polaris_btman_exec_t;
")

corecmd_search_bin($1)
domtrans_pattern($1, polaris_btman_exec_t, polaris_btman_t)
")

########################################
## <summary>
##    Read /tmp/tmppub files/dirs
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface("polaris_btrace_tmppub_read",
    gen_require(
        type polaris_btrace_tmppub_t;
    ")
    read_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
    read_lnk_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
    list_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
")

########################################
## <summary>
##    Manage /tmp/tmppub files/dirs
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface("polaris_btrace_tmppub_manage",
    gen_require(
        type polaris_btrace_tmppub_t;
    ")
    manage_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
    manage_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
")

########################################
## <summary>
## Read and write all btman's fifo file, used as
## standard input/output.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>

```
interface(`polaris_use_btman_fifo',`
gen_require(`
type polaris_btman_t;
')

allow $1 polaris_btman_t:fifo_file { rw_term_perms lock append create unlink };')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.if
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#

## <summary>Polaris webui Policy Rules.</summary>

```
#######
## <summary>
## Read files under /webui/..., these are webui odm file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>

```

read_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
read_link_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.if
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#
# March 2017, Victor Kamensky
#
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#
/tmp/fp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/rp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/cc/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.fc
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#
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#
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#
## <summary>Polaris NVRAM Policy Rules.</summary>

###############################################################################
# Polaris lsmpi
###############################################################################

###############################################################################
## <summary>
## Work (read, write, ioctl) with /dev/lsmpi device.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_lsmpi_dev_use',
    gen_require('
type device_t;

type polaris_lsmipi_device_t;

')

write_chr_files_pattern($1, device_t, polaris_lsmipi_device_t)
read_chr_files_pattern($1, device_t, polaris_lsmipi_device_t)
allow $1 polaris_lsmipi_device_t:chr_file map;
')

######################################
## <summary>
##    Read lsmpi sysctl file, ie one under /proc/sys/lsmpi and
##    /proc/sys/lsmpi_lodrv directories.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
## <rolebase/>
#
interface(`polaris_lsmipi_sysctl_read',`
    gen_require(`
        type polaris_sysctl_lsmipi_t;
        ')'  
        read_files_pattern($1, polaris_sysctl_lsmipi_t, polaris_sysctl_lsmipi_t)
        ')'  
)

######################################
## <summary>
##    Read from /sys/devices/virtual/contdev sysfs files.
##    sys files.
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface(`polaris_contdev_dev_read',`
    gen_require(`
        type polaris_sysfs_contdev_t;
        type sysfs_t;
        ')'  
        read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
        list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
        # genfscon statement specifically excludes symbolic links from
        # genfscon path specific entries. To workaround, let us allow
        # to follow sysfs_t symbolic links
        

allow $1 sysfs_t:lnk_file read;
')


### <summary>
## Write into /sys/devices/virtual/contdev sysfs files.
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_contdev_dev_write',
  gen_require(''
  type polaris_sysfs_contdev_t;
  type sysfs_t;
  ')
  write_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file read;
')

### <summary>
## Manage /sys/devices/virtual/contdev sysfs files.
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_manage_contdev_dev',
  gen_require(''
  type polaris_sysfs_contdev_t;
  type sysfs_t;
  ')
  manage_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  manage_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  # genfscon statement specifically excludes symbolic links from
  # genfscon path specific entries. To workaround, let us allow
  # to follow sysfs_t symbolic links
  allow $1 sysfs_t:lnk_file read;
')
## <summary>
##      Allow the specified domain to manage punt/inject socket files. I.e /tmp/pi/dp_2_iosd_pi and /tmp/pi/iosd_2_dp_pi
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pi_uds_manage',`
   gen_require(`
      type polaris_pi_uds_t;
   `)
   manage_sock_files_pattern($1, polaris_pi_uds_t, polaris_pi_uds_t)
`)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.if
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#  
# March 2017, Victor Kamensky
#  
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#  
/usr/binos/conf/issu_stack.sh -- gen_context(system_u:object_r:polaris_issu_stack_exec_t,s0)
/tmp/issu_stk(/.*)?  gen_context(system_u:object_r:polaris_issu_stack_tmp_t,s0)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.fc
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#  
# August 2017, Shawn Lu
#  
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#  
# polarisnmspd file contexts place holder

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# Aug 2020, Sridhar C
#
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#

policy_module(polarisxcopy, 1.0);

#******************************************************************************
# xcopy_script.sh
#******************************************************************************
polaris_utility_domain_template(xcopy_script)

polaris_bexecute_domain(polaris_xcopy_script_t, polaris_xcopy_script_exec_t)
# xcopy_script.sh call other scripts through brelay.sh
polaris_bexecute_domtrans(polaris_xcopy_script_t)

polaris_chasfs_manage(polaris_xcopy_script_t)

# xcopy calls curl/sshpass/scp command and support scp/http/https
gen_require(
    type polaris_curl_t;
    type ssh_exec_t;
    type ssh_home_t;
    type devpts_t;
')
polaris_curl_domtrans(polaris_xcopy_script_t)
corenet_tcp_connect_ssh_port(polaris_curl_t)
corenet_tcp_connect_http_port(polaris_curl_t)
corenet_tcp_connect_ssh_port(polaris_xcopy_script_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_xcopy_script_t)

# read polaris vrf net namespace file
fs_read_nsfs_files(polaris_xcopy_script_t)

# curl needs access to bootflash
polaris_bootflash_manage(polaris_curl_t)
polaris_bootflash Manage(polaris_xcopy_script_t)

# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(
    polaris_ncd_tmp_read(polaris_xcopy_script_t)
)
# Execute
corecmd_exec_bin(polaris_xcopy_script_t)

# uses kernel utilities like pidof, stat
domain_read_all_domains_state(polaris_xcopy_script_t)
kernel_list_proc(polaris_xcopy_script_t)

# read /proc/cmdline
kernel_read_system_state(polaris_xcopy_script_t)
fs_getattr_tmpfs(polaris_xcopy_script_t)
fs_getattr_xattr_fs(polaris_xcopy_script_t)

# xcopy started from the smand and needs fifo
polaris_smand_use_fifo(polaris_xcopy_script_t)

# ping to check reachability
netutils_domtrans_ping(polaris_xcopy_script_t)

# calls mcp_chvrf.sh for ping and curl
polaris_chvrf_domtrans(polaris_xcopy_script_t)

# xcopy uses ps to find the curl process state
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_xcopy_script_t)

# Started by bexecute so it has its stdin set to telnet pty file
telnet_use_ptys(polaris_xcopy_script_t)

# stdout is set to fifo set by rotte to capture output into btrace
# btrace also need these policies :)
# btrace_init also refer to /tmp/sw/boot/
polaris_use_btrace_fifo(polaris_xcopy_script_t)
polaris_cpld_read(polaris_xcopy_script_t)
polaris_boot_tmp_read(polaris_xcopy_script_t)

# Allow /tmp/xcopy/
type polaris_xcopy_tmp_t;
files_tmp_file(polaris_xcopy_tmp_t)
files_tmp_filetrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, { dir file })
polaris_xcopy_tmp_manage(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manage(polaris_curl_t)

# PS command access ttyS1
term_getattr_unallocated_ttys(polaris_xcopy_script_t)

# sshpass/scp
ssh_getattr_user_home_dir(polaris_xcopy_script_t)

# sshpass uses the ptmx
term_use_ptmx(polaris_xcopy_script_t)
term_getattr_pty_fs(polaris_xcopy_script_t)

# scp uses ssh
allow polaris_xcopy_script_t ssh_exec_t,file { execute execute_no_trans map open read }; ssh_exec(polaris_xcopy_script_t)

allow polaris_xcopy_script_t self:capability {sys_resource fsetid};
allow polaris_xcopy_script_t self:process setfscreate;
allow polaris_xcopy_script_t ssh_home_t:dir { create search }; 
allow polaris_xcopy_script_t devpts_t:chr_file { getattr open read setattr write };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.te
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#
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#
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#
#
## <summary>Polaris dmi_ncsshd_fwd Policy Rules.</summary>

#####################################################################################################
## <summary>
## Connect to and send messages to dmi ncsshd_bp
## tmp/.ncsshd_bp.sock unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
#
interface('polaris_dmi_ncsshd_fwd_dgram_send',
    gen_require(
        type polaris_dmi_ncsshd_log_t;
        type polaris_dmi_ncsshd_fwd_t;
    )
)
allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_dmi_ncsshd_fwd:unix_stream_socket {connectto};
write_sock_files_pattern($1, polaris_dmi_ncsshd_log_t, polaris_dmi_ncsshd_log_t)
)

#################################################################
## <summary>
##  Write into fifo file created by dmi_ncsshd_fwd, typical case when
##  hman starts script under popen.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_dmi_ncsshd_fwd_use_fifo`,
   gen_require(
       type polaris_dmi_ncsshd_fwd_t;
   )
)
write_fifo_files_pattern($1, polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_fwd_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshd_fwd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
define(`polaris_database_aux`,
   define(`polaris_database`,
      polaris_database_aux(database_label($1), $1)
   )
   define(`polaris_database`,
      polaris_database_aux(database_label($1), $1)
   )
)
define(`polaris_database_process',"")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_fc.m4
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#

### <summary>Polaris ioxman Policy Rules.</summary>

#########################################################################
###
### Manage ioxman temporary files and directories in /tmp.
### Like /tmp/ios_xml.dat.
###
###
###<param name="domain">
###
### Domain allowed access.
###
###
###</param>
#

interface(`polaris_iox_manage_tmp_files',`

gen_require(`

type polaris_iox_tmp_t;
`)

manage_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_xml.dat")
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_override.conf")
# /tmp/trace/resource.log can be created by ioxman/vman/caf
# through sourcing in the family of the pvsmap_*_sh scripts
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
`)

#########################################################################
###
### Read ioxman temporary files and directories in /tmp.
### Like /tmp/ios_xml.dat and /tmp/iox_override.conf
###
###
###<param name="domain">
###
### Domain allowed access.
###
###
###</summary>
interface('polaris_iox_read_tmp_files',
    gen_require(
        type polaris_iox_tmp_t;
    )
)

read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)

interface('polaris_iox2iosd_tmp_manage',
    gen_require(
        type polaris_iox2iosd_tmp_t;
    )
)

manage_dirs_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
manage_files_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)

interface('polaris_ioxman_exec_read',
    gen_require(
        type polaris_ioxman_exec_t;
        type bin_t;
    )
)

read_files_pattern($1, bin_t, polaris_ioxman_exec_t)
### <summary>
### Allow the specified domain to get show_version information
### from ioxman executable
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_ioxman_show_version',`
   gen_require(`
     type polaris_ioxman_exec_t;
   `)
   polaris_show_version($1, polaris_ioxman_exec_t)
`)

### <summary>
### Allow the specified domain to get show_version information
### from dockerd and other container_runtime_t executables
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_container_runtime_show_version',`
   gen_require(`
     type container_runtime_exec_t;
   `)
   polaris_show_version($1, container_runtime_exec_t)
`)

### <summary>
### Execute a domain transition to run cat9k_ssd_auth_cmds.sh
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_ssd_auth_domtrans',`
gen_require(
    type polaris_ssd_auth_t, polaris_ssd_auth_exec_t;
)

domtrans_pattern($1, polaris_ssd_auth_exec_t, polaris_ssd_auth_t)
)

########################################################
## <summary>
## Read ssd files in /tmp/ssd_blk_device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_read_ssd_tmp_files',`
    gen_require(
        type polaris_ssd_auth_tmp_t;
    )
    read_files_pattern($1, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.if
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#
# Nov 2020, Swati Kumaro
#
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#
/dev/blzi_fpga -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_lpps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_gps_lpps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_lol_lpps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_0 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_1 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_2 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_3 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_4 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_5 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)

Found in path(s):
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# January 2021, Gabriel Lee, Shawn Liu
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#

policy_module(polarisezmanage, 1.0);

type polaris_ezmanage_file_t;
files_type(polaris_ezmanage_file_t)
polaris_pfile_type(polaris_ezmanage_file_t)

polaris_process_domain_template(ezmanage)

# Allow ezManage script to be executed by systemd
gen_require(''
    type unconfined_service_t;
')
polaris_ezmanage_domtrans(unconfined_service_t)

# Allow ezManage file and directory access
polaris_manage_ezmanage_files(polaris_ezmanage_t)

# Allow ezManage socket access
allow polaris_ezmanage_t self:unix_dgram_socket { connected_socket_perms sendto }

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_ezmanage_t)

# ezManage python script needs access to USB ttys for modem AT channel
term_use_usb_ttys(polaris_ezmanage_t)

# ezManage python script needs /usr/bin/python3 execution and may also call other generic system bin utilities
corecmd_exec_bin(polaris_ezmanage_t)

# ezManage needs to access /bootflash/ciscosdwan.cfg and a variably named tar file in /bootflash/modem_firmware
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "ciscosdwan.cfg")
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "modem_firmware.tar.gz")

# ezManage socket file is created in /var/run
type polaris_ezmanage_var_run_t;
files_pid_file(polaris_ezmanage_var_run_t)
files_pid_filetrans(polaris_ezmanage_t, polaris_ezmanage_var_run_t, sock_file, "cwan_ezmanage_py_server")
# Allow ezManage to access its socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ezmanage_t)

# Allow ezManage to access ngiolite socket file in /var/run
gen_require('%
    type polaris_cwan_svr_var_run_t;
')
rw_sock_files_pattern(polaris_ezmanage_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)

# Allow ezManage to access ngiolite dgram_socket
gen_require('%
    type polaris_ngiolite_t;
')
allow polaris_ezmanage_t polaris_ngiolite_t:unix_dgram_socket sendto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.te
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#
# March 2017, Victor Kamensky
#
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#
#
### <summary>Polaris dbm Policy Rules.</summary>

###########################
### <summary>
### Setup /bootflash/.dbpersist directory and content.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### </summary>
#
interface('polaris_tdl/dbpersistence_setup',`
    gen_require('%
        type polaris_disk_bootflash_t;
        type polaris_disk_dbm_t;
    ')
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t, dir, ".dbpersist")
# allow creation of /bootflash/.dbpersistence directory
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t)
# dbm can manage files inside of its own polaris_disk_dbm_t directories
manage_files_pattern($1, polaris_disk_dbm_t, polaris_disk_dbm_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.if
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#
# May 2017, Victor Kamensky
#
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#
#
# polarismdtpubd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#
#
policy_module(polaristtm, 1.0);

gen_require(
    type polaris_ttm_t;
')
polaris_chasfs_read(polaris_ttm_t)
polaris_cpld_read(polaris_ttm_t)

logging_send_syslog_msg(polaris_ttm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ttm_t)

# /var/run/.ttmd socket and pid
type polaris_ttm_var_run_t;
files_pid_file(polaris_ttm_var_run_t)
manage_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
manage_sock_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
files_pid_filetrans(polaris_ttm_t, polaris_ttm_var_run_t, { file sock_file })

# allow /usr/binos/bin/ttmd to acces polaris_tdlresolve_t and
polaris_global_service_t
polaris_tdlresolve_manage(polaris_ttm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.te
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# February 2020, Victor Kamensky
#
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#

policy_module(polarissdavcproxy, 1.0);

gen_require("
    type polaris_sdavc_proxy_t;
"
# btrace_application_start
polaris_chasfs_read(polaris_sdavc_proxy_t)
polaris_tdlresolve_read(polaris_sdavc_proxy_t)
polaris_cpld_read(polaris_sdavc_proxy_t)

# Allow SDAVC exports using UDP socket.
allow polaris_sdavc_proxy_t self:udp_socket create_socket_perms;

# Change namespace to allow network communitcation with vManage
(process_namespace_network_change_internal - opens /var/run/netns/*)
polaris_cedge_set_ns(polaris_sdavc_proxy_t)

# Reset the anamespace back to default (process_namespace_network_default opens /proc/1/ns/net)
polaris_cedge_reset_ns(polaris_sdavc_proxy_t)

type polaris_sdavc_proxy_files_t;
files_type(polaris_sdavc_proxy_files_t)
polaris_pfile_type( polaris_sdavc_proxy_files_t)

# Create /bootflash/sdavc directory, Write, Read & Removed files  (For SDAVC imports)
polaris_bootflash_filetrans(polaris_sdavc_proxy_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_sdavc_proxy_manage(polaris_sdavc_proxy_t)

# IOSd process also should have access to /bootflash/sdavc directory
gen_require(""
    type polaris_iosd_t;
")
# Allow SDAVC imports (HTTP GET, PUT) we use /usr/bin/curl executable.
# Exe: curl -f -s --connect-time 10 -o/bootflash/sdavc/... -w %{http_code} http://<user>:<pw>@<vManage system
ip>:<port>
# Run CURL in its domain so it won't have all sdavcproxy permissions.

gen_require('  
    type polaris_curl_t;
')
polaris_curl_domtrans(polaris_sdavc_proxy_t)
corenet_tcp_connect_generic_port(polaris_curl_t)

#cURL process also should have access to /bootflash/sdavc directory
polaris_sdavc_proxy_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.te
No license file was found, but licenses were detected in source scan.

#/ Sep 2020, Sridhar C
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#

/usr/binos/conf/xcopy_script.sh -- gen_context(system_u:object_r:polaris_xcopy_script_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl divert(-1)

include(\'polaris_process.m4\')
dnl Stub out plaris process
define(\'polaris_process\',\'\')

dnl Stub out mqipc
define(\'polaris_mqipc_service_server\',\'\')
define(`polaris_mqipc_service_client',"")
define(`polaris_mqipc_service_server_elastic_client',"")

dnl Stub out lipc
define(`polaris_lipc_service_server',"")
define(`polaris_lipc_service_client',"")

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_te.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
define(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

policy_module(autopolarisplatformipbase, 1.0);

gen_require(`
    attribute port_type;
    attribute defined_port_type;
    ")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_te.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisdroputil, 1.0);

polaris_process_domain_template(droputil)
corecmd_exec_bin(polaris_droputil_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_droputil_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_droputil_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_droputil_t)

# work with /tmp files

type polaris_droputil_tmp_t;
files_tmp_file(polaris_droputil_tmp_t)
manage_dirs_pattern(polaris_droputil_t, tmp_t, polaris_droputil_tmp_t)
manage_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_fifo_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_lnk_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
files_tmp_filetrans(polaris_droputil_t, polaris_droputil_tmp_t, { file dir })

# on some platform /tmp/rp/dropbox is created by bins service
# that runs under initrc_t

    gen_require(
        type initrc_t;
    )
files_tmp_filetrans(initrc_t, polaris_droputil_tmp_t, dir, "dropbox")

allow polaris_droputil_t self:capability { sys_resource dac_override };
allow polaris_droputil_t self:process setpgid;

polaris_btrace_data_manage(polaris_droputil_t)
polaris_cpld_read(polaris_droputil_t)
polaris_chasfs_manage(polaris_droputil_t)
polaris_boot_tmp_read(polaris_droputil_t)
polaris_read_debug_conf(polaris_droputil_t)
polaris_disk_crashinfo_getattr(polaris_droputil_t)
polaris_rmonbifo_tmp_read(polaris_droputil_t)

# runs systemctl start reflector.service
systemd_exec_systemctl(polaris_droputil_t)

# PLEASE LOOK AT ME need to have separate label for reflector.service
# allow only to start if, do it once copy of reflector.service is fixed
systemd_config_generic_services(polaris_droputil_t)

# droputil.sh deletes /tmp/rp/droputil/so-del-stage/rp/0
fs_getattr_tmpfs(polaris_droputil_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.te

No license file was found, but licenses were detected in source scan.
policy_module(polarisofa, 1.0);

gen_require(
    type polaris_ofa_t;
')

polaris_btrace_data_manage(polaris_ofa_t)
polaris_crft_data_manage(polaris_ofa_t)
polaris_chasfs_manage(polaris_ofa_t)
polaris_tdlresolve_read(polaris_ofa_t)
polaris_tlddb_list_dirs(polaris_ofa_t)
polaris_cpld_read(polaris_ofa_t)
polaris_flashlib_read(polaris_ofa_t)

allow polaris_ofa_t self:capability sys_admin;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.te
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# Open Source Used in Field Network Director for Virtual Machine Installation 4.8.1  10452

# March 2017, Victor Kamensky
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#

# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/dev/shm/sem\objstore_sem gen_context(system_u:object_r:polaris_objstore_sem_t,s0)
# hanet driver used by vpcgw platform of VX family
ifdef(`vpcgw_platform`,
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
')

# /csl_p_0
/csl_p_0(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?    gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /varied
/varied(/.*)?     gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info     gen_context(system_u:object_r:polaris_vxeinstall_info_t,s0)
/varied/obfl_.*     gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version     gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)?    gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)?   gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/vcpu_template.txt     gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)
/sbin/grub*        gen_context(system_u:object_r:bootloader_exec_t,s0)

# /grubenv
/bootefi(/.*)?     gen_context(system_u:object_r:polaris_grub_efi_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l          gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l          gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# umbrella_ini.sh executable label
/usr/binos/conf/umbrella_init.sh --  gen_context(system_u:object_r:polaris_umbrella_init_exec_t,s0)

# On ultra_us /cpld_util.sh creates /tmp/chassis. Put this script into the initexec_t domain so
# chasfs transitions properly.
#
cpld_util.sh     gen_context(system_u:object_r:initrc_exec_t,s0)

# /config labels
/config(/.*)?     gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/.ssh(/.*)?     gen_context(system_u:object_r:ssh_home_t,s0)
/config/.ssh/ssh_host.*_key.pub  gen_context(system_u:object_r:sshd_key_t,s0)
/config/.ssh/ssh_host.*_key         gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisboot, 1.0);

##############################################################################
# /tmp/sw/boot policy
##############################################################################
type polaris_boot_tmp_t;
files_tmp_file(polaris_boot_tmp_t)
gen_require(
    attribute domain;
)
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "boot")
# /tmp/sw/isos
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "isos")

# dmesg command is executed in its own domain and result is store
# into /tmp/sw/boot/dmesg file
gen_require(
    type dmesg_t;
)
polaris_boot_tmp_write(dmesg_t)

# /tmp/reload_reason copied from /bootflash/.prst_sync/reload_info
files_tmp_filetrans(domain, polaris_boot_tmp_t, file, "reload_reason")

# /tmp/bootup_timestamp created by /etc/init.d/binos
gen_require(
    type initrc_t;
    type init_t;
)
files_tmp_filetrans({ initrc_t init_t }, polaris_boot_tmp_t, file, "bootup_timestamp")

type polaris_boot_file_t;
files_type(polaris_boot_file_t)
polaris_pfile_type(polaris_boot_file_t)
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gen_require(
    type polaris_disk_bootflash_t;
)

filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "reload_info")
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "stack_reload_info")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmportsfetch.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris Common Policy Rules.</summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="entry_point">
##	<summary>
##	Type of the program to be used as an entry point to this domain.
##</summary>
## </param>

# interface(`polaris_process_domain_confined`,
    gen_require(`
        type unconfined_service_t;
    `)
    init_daemon_domain($1, $2)

# polaris process now started by pman, which still runs
# under unconfined label
type_transition unconfined_service_t $2:process $1;
allow unconfined_service_t $1:process transition;
allow $1 unconfined_service_t:process sigchld;

polaris_pman_entry($1, $2)

gen_require(`
    attribute polaris_domain;
    attribute polaris_exec_domain;
    attribute polaris_extended_domain;
`
)typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)
`)

##################################################
## <summary>
##      Create a domain for long running Polaris processes. Note
##      depending on policy build setting it could be confined or
##      not confined
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="entry_point">
##	<summary>
##	Type of the program to be used as an entry point to this domain.
##
## </param>
#
interface(`polaris_process_domain`,`

# the default is to confine all domains
polaris_process_domain_confined($1, $2)

#
# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confined map, then there really
# isnt much else to do but leave it confined. if the domain isnt in
# the permissive or confined maps then determine if the domain should
# be unconfined.
#
ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
    confined_domain($1),   $1, '',
    `polaris_domain_maybe_unconfined($1)'
')

#######################################
## <summary>
##      Create a domain for utility Polaris processes in
##  confined mode.
## </summary>
## <param name="domain">
##
##
## </param>
##<param name="entry_point">
##
##
## Type of the program to be used as an entry point to this domain.
##
## </param>
#
interface(`polaris_utility_domain_confined',`
domain_type($1)
domain_entry_file($1, $2)
    role system_r types $1:

    gen_require(
        attribute polaris_domain;
        attribute polaris_exec_domain;
        attribute polaris_extended_domain;


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`) typeattribute $1 polaris_domain, polaris_extended_domain;
:typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)
```

')

`#` Create a domain for utility Polaris processes. Note depending on policy build setting it could be confined or not confined
`##` <summary>
`##` Domain allowed access.
`##` </summary>
`##` <param name="domain">
`##` Type of the program to be used as an entry point to this domain.
`##` </param>
`##` Type of the program to be used as an entry point to this domain.
`##` <param name="entry_point">
`##` Interface(`polaris_utility_domain`,

`#` the default is to confine all domains
polaris_utility_domain_confined($1, $2)

`#` if the domain is in the permissive map, then set it to be confined
`#` permissive, if the domain is in the confined map, then there really isn't much else to do but leave it confined. if the domain isn't in the permissive or confined maps then determine if the domain should be unconfined.
`#` interface(`polaris_utility_domain',

`#` ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
`confined_domain($1), $1, "", `polaris_domain_maybe_unconfined($1)')
```

`)`
### <summary>
### Stem for the domain. Name is constructed as polaris_stem_t
### </summary>
### </param>
#

template('polaris_process_domain_template',
    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_process_domain(polaris_$1_t, polaris_$1_exec_t)
ifdef(polaris_permissive,
    permissive polaris_$1_t;
)

polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)
polaris_process_uswap_access(polaris_$1_t, $1, "$1")
')

###########################################################################
### <summary>
### Creates types and rules for a basic
### polaris process domain.
### </summary>
### <param name="stem">
### <summary>
### Stem for the domain. Name is constructed as polaris_stem_t
### </summary>
### </param>
#

template('polaris_utility_domain_template',
    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_utility_domain(polaris_$1_t, polaris_$1_exec_t)
ifdef(polaris_permissive,
    permissive polaris_$1_t;
)

polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)

### <summary>
### Allow the specified domain to execute polaris domain process in the caller domain.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface(`polaris_exec',`
  gen_require(`
    attribute polaris_exec_domain;
  `)

  can_exec($1, polaris_exec_domain)
`)

### <summary>
### Allow the specified domain to read polaris domain executable file. I.e to get information from executables like binary trace info, trace key etc
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface(`polaris_read_exec_domain',`
  gen_require(`
    attribute polaris_exec_domain;
    type bin_t;
  `)

  read_files_pattern($1, bin_t, polaris_exec_domain)
`)

### <summary>
### Allow the specified domain to receive signals from any polaris process.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
interface('polaris_receive_signal_from_domain',
    gen_require(
        attribute polaris_domain;
    ')

    allow polaris_domain $1:process signal_perms;
')

###################################################################
## <summary>
## Systemd-tmpfiles utility creates an object
## in the tmp directories, with a private type using a type
## transition.
## Note rules to create files and directories which are
## performed by systemd-tmpfiles reside in /lib/tmpfiles.d/
## directory. And polaris specific rules are in binos.conf file.
## Note systemd-tmpfiles utility would use label from file_contexts
## to restore proper label. I.e the same effect could be achieved by
## placing proper .fc expression.
## </summary>
## <param name="private type">
## The type of the object to be created.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name">
## The name of the object being created.
## </param>
#
# interface('polaris_systemd_tmpfiles_tmp_filetrans',
#    gen_require(
#        type systemd_tmpfiles_t;
#    ')
#    files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)
')

###################################################################
socketat through get_netns_fd function call access
/proc/pid/ns/net file

## Implementation notes:

## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
of be nsfs_t. For now allow read access to proc_t through
kernel_system_state_reader attribute. Try to drop it in latter kernels

## Implementation notes:

## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
of be nsfs_t. For now allow read access to proc_t through
kernel_system_state_reader attribute. Try to drop it in later kernels

## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
of be nsfs_t. For now allow read access to proc_t through
kernel_system_state_reader attribute. Try to drop it in later kernels

```c
interface('polaris_socketat_nsfs_read',
  kernel_read_system_state($1)
  fs_read_nsfs_files($1)
  gen_require('type ifconfig_var_run_t;
')
  list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
)
```

## <param name="domain">

## Domain allowed access.

## </param>

## <summary>

## All namespace related operation to switch name space

## is covered under this macro.

## </summary>

## <param name="domain">

## Domain allowed access.

## </param>

```c
interface('polaris_namespace_set_netns_with_etc',
  files_mounton_isid($1)
  files_mounton_rootfs($1)
  dev_mount_sysfs_fs($1)
  dev_unmount_sysfs_fs($1)
  sysnet_read_config($1)
  sysnet_write_config($1)
)```
sysnet_manage_config_dirs($1)
files_rw_etc_files($1)
allow $1 net_conf_t:file mounton;
allow $1 etc_t:file mounton;
allow $1 self:capability sys_chroot;
'

####################################################################
## <summary>
## process can execute libeiutil build_config_directory function
##
## Implementation notes:
## build_config_directory function from mgmt/libeiutil/src/eiutil.c
## calls glibc nftw function, which effectively walks whole file tree
## and execute given call back. While function is executed it needs
## access to all files and directories attributes also it wants to
## search all directories. But we will not grant search access to
## security_file_type, instead we will dontaudit those. Anyway no
## relevant config file should be under security_file_type directory.
## </summary>
##<param name="domain">
## <summary>
## Domain allowed access.
## </summary>
##</param>
#
interface(`polaris_libeiutil_build_config_directory',
 files_getattr_all_files($1)
files_getattr_all_dirs($1)
files_read_all_symlinks($1)

files_list_non_security($1)
files_dontaudit_list_security_dirs($1)
')

####################################################################
## <summary>
## Allow the specified domain to read write from i2c device.
## </summary>
##<param name="domain">
## <summary>
## Domain allowed access.
## </summary>
##</param>
#
interface(`polaris_i2c_use',
 gen_require(`
 type device_t;
type polaris_i2c_device_t;

')

rw_chr_files_pattern($1, device_t, polaris_i2c_device_t)
')

###########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/remap_mem0
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_remap_mem_dev_use',
gen_require('  type device_t;
type polaris_remap_mem_device_t;
')  write_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)  read_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)  allow $1 polaris_remap_mem_device_t:chr_file map;
')

###########################################################################
## <summary>
## Allow the specified domain to read firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_firmware_read',
gen_require('  type polaris_firmware_t;
')  read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)  # /firmware/* are link files, allow to follow symbolic link  allow $1 polaris_firmware_t:lnk_file read;  allow $1 polaris_firmware_t:dir read;
')

###########################################################################
## <summary>
## Allow the specified domain to manage firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_manage',
    gen_require(''
        type polaris_firmware_t;
    ')
)
manage_files_pattern($1, polaris_firmware_t,  polaris_firmware_t)
manage_lnk_files_pattern($1, polaris_firmware_t,  polaris_firmware_t)
manage_dirs_pattern($1, polaris_firmware_t,  polaris_firmware_t)
')

########################################################
## <summary>
## Allow the specified domain to getattr of firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_getattr',
    gen_require(''
        type polaris_firmware_t;
    ')
)
getattr_files_pattern($1, polaris_firmware_t,  polaris_firmware_t)
')

########################################################
## <summary>
## Allow the specified domain to map of firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_map',

gen_require(
    type polaris_firmware_t;
)

read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
allow $1 polaris_firmware_t:file map;

######################################
## <summary>
## Allow the specified domain to write relocations into text segment, deals
## with icc broken relocations.
##
## LOOK AT ME:
## Basically it deals with denials like this:
## type=AVC msg=audit(1475815369.598:3): avc: denied { execmod } for pid=4929 comm="cman_fp"
## path="/tmp/sw/mount/csr1000v-mono-universalk9.2016-10-06_20.15_kamensky.SSA.pkg/usr/cpp/lib64/libcpp_client_ha_oor.so"
## dev="loop0" ino=7683
## scontext=system_u:system_r:unconfined_service_t:s0
tcontext=system_u:object_r:lib_t:s0
tclass=file
## It happens because icc generates code with relocations in text segment and
## run-time linker is dealing with it by doing mprotect(WRITE), relocatings,
## mprotect(NO WRITE). Remove once icc compiled is fixed
##
## </summary>
## <param name="domain">
## Domain allowed access.
##
## </param>
#
interface('polaris_icc_broken_relocations',
        gen_require(
            type lib_t;
        )
    )
    allow $1 lib_t:file execmod;
)

######################################
## <summary>
## Allow the specified domain to work with /dev/mem
##
## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works
## with /dev/mem directly
##
## </summary>
## <param name="domain">
## Domain allowed access.
interface('polaris_dev_mem_use',
    dev_read_raw_memory($1)
    dev_write_raw_memory($1)
    allow $1 self:capability sys_rawio;
    gen_require(
        type memory_device_t;
    )
    allow $1 memory_device_t:chr_file map;
    )

interface('polaris_etc_append',
    gen_require(
        type polaris_etc_t;
    )
    append_files_pattern($1, polaris_etc_t, polaris_etc_t)
    )

interface('polaris_etc_search',
    gen_require(
        type polaris_etc_t;
    )
    search_dirs_pattern($1, polaris_etc_t, polaris_etc_t)
    )
List the contents of /etc directories.

Domain allowed access.

Domain allowed access.

Domain allowed access.

Domain allowed access.

Perms used by pidof

Perms used by pidof

Perms used by pidof

Domain allowed access.

Domain allowed access.

Domain allowed access.
# <rolebase/>
#
interface('pidof_use',`
# FIXME or fix labeling
#/sys/devices/system/cpu/online should be labeled cpu_online_t
# but for some reason this did not happen, grant perms for both
dev_read_sysfs($1)
dev_read_cpu_online($1)
#/proc scan
domain_read_all_domains_state($1)
kernel_list_proc($1)
`)
type polaris_ebf_t;

read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
allow $1 polaris_ebf_t:file map;

######################################
## <summary>
##      Allow the specified domain to execute show_version command
## for given executable label
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="subject_exec">
##      <summary>
##      Domain of executable that version can be checked
##      </summary>
## </param>
#
interface('polaris_show_version',``
         read_files_pattern($1, $2, $2)
         allow $1 $2:file map;
')

#######################################
## <summary>
##     Configure the polaris domain as permissive
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
##<rolebase/>
#
interface('polaris_permissive_domain_setup',``
    gen_require(`
        type $1;
    `)
    permissive $1;
')
## <summary>
## Creates types and rules for process access to uswap feature.
## Ability to create file/folder under /bootflash/USWAP/"FRU", and
## map file.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

## <param name="stem">
## Stem for the object label. Name is contructed as
## polaris_"stem"_uswap_files_t. It should be the short
## form of the process name.
## E.g., for IOSd polaris_iosd_uswap_files_t.
## </param>

## <param name="name">
## The name of the object being created.
## Name of the folder created by the process for
## creating the uswap files.
## </param>

# template('polaris_process_uswap_access',
 gen_require(
    type polaris_uswap_files_t;
 )
 type polaris_$2_uswap_files_t;
 files_type(polaris_$2_uswap_files_t)
polaris_pfile_type(polaris_$2_uswap_files_t)

filetrans_pattern($1, polaris_uswap_files_t, polaris_$2_uswap_files_t, {file dir})
manage_dirs_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
manage_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
manage_lnk_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
allow $1 polaris_$2_uswap_files_t:file map;

# allow access to pvp to clean-up the process related uswap file/folder
 gen_require(
    type polaris_pvp_t;
 )
allow polaris_pvp_t polaris_$2_uswap_files_t:dir { read remove_name rmdir write };
allow polaris_pvp_t polaris_$2_uswap_files_t:file unlink;
')

…………………………………………………………………………………………………………………………
## <summary>
##   Allow process access to access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
##   <summary>
##      Stem for the domain. Name is constructed as polaris_stem_t
##   </summary>
## </param>
#
# template('polaris_process_proc_kpageflags_template',
#    gen_require(
#      type proc_t;
#    )
#    allow polaris_$1_t proc_t:file { open read };
#')

…………………………………………………………………………………………………………………………
## <summary>
##   transition context of fman(rp/fp) created iptbl tmp files related to acl mgmt.
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_fman_acl_iptbl_tmp_file',
#    gen_require(
#      type polaris_iptbl_tmp_t;
#    )
#    files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v4")
#    files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v6")
#    manage_files_pattern($1, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
#')

…………………………………………………………………………………………………………………………
## <summary>
##   Manage files/folders in /tmp/rsync_log_dir.
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
```csharp
interface('polaris_manage_rsync_tmplog_dir',
    gen_require(
        type polaris_rsync_tmp_t;
    )
    manage_files_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
    manage_dirs_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
)

```

```
interface('polaris_cerr_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_cerr_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_cerr_shm_t)
    allow $1 polaris_cerr_shm_t:file map;
    fs_tmpfs_filetrans($1, polaris_cerr_shm_t, file, "errno_dll")
)
```

```
interface('polaris_vrf_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_vrf_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
    allow $1 polaris_vrf_shm_t:file map;
    fs_tmpfs_filetrans($1, polaris_vrf_shm_t, file, "errno_dll")
)```

```
```
manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
allow $1 polaris_vrf_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_vrf_shm_t, file, "vrf_shm")
')

#######################################
## <summary>
##      On-demand creation of vrf-based netns using "ip netns".
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_vrf_netns_manage',`
polaris_vrf_shm_manage($1)

kernel_rw_net_sysctls($1)
polaris_lfts_dev_use($1)

sysnet_exec_ifconfig($1)
sysnet_manage_ifconfig_run($1)
gen_require(`
      type ifconfig_var_run_t;
')
allow $1 ifconfig_var_run_t:file { create mounton open read };
allow $1 ifconfig_var_run_t:dir mounton;

gen_require(`
      type polaris_ip_linux_port_var_t;
')
read_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
getattr_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
')

###################################################################
## <summary>
## Allow read/write of network state directory files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
##
#
interface(`polaris_kernel_rw_network_state_files',`
gen_require(
  type proc_net_t;
 )

rw_files_pattern($1, proc_net_t, proc_net_t)

#

#########################################################################
## <summary>
## Allow the specified domain to send signals to
## Binos shell
## </summary>

## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#

interface('polaris_send_signal_to_shell',
  gen_require(
    type polaris_shell_t;
   )

   allow $1 polaris_shell_t:process signal_perms;
 )

#########################################################################
##<summary>
##Execute curl in the curl domain.
## </summary>

## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#

interface('polaris_curl_domtrans',
  gen_require(
    type polaris_curl_t, polaris_curl_exec_t;
   )

corecmd_search_bin($1)
domtrans_pattern($1, polaris_curl_exec_t, polaris_curl_t)

#########################################################################
## <summary>
## Manage files and directories in /tmp directory with rsync_tmp_t

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## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('rsync_tmp_manage',`
    gen_require('`
        type rsync_tmp_t;
    `)
    manage_dirs_pattern($1, rsync_tmp_t, rsync_tmp_t)
    manage_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
    manage_lnk_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
    manage_fifo_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
`)

######################################
## <summary>
## Allow the specified domain to read /tmp/ldwm_envelope file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>

interface('polaris_ldwm_envelope_read',`
    gen_require('`
        type polaris_ldwm_envelope_tmp_t;
    `)
    read_files_pattern($1, polaris_ldwm_envelope_tmp_t, polaris_ldwm_envelope_tmp_t)
`)

######################################
## <summary>
## This is copied from polarisngwc.if since other platforms may also
## read/write /sys/devices files. In addition to ngwc, tsn requires it.
## Write into /sys/devices/virtual/misc/ggpio/gpio_out_assert sysfs files.
## or /sys/devices/platform/cpn-110-master/cpn-110-master sysfs
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>

interface('polaris_ggpio_dev_read_write',`
    gen_require('`
type polaris_sysfs_ggpio_t;
)
read_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
write_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
)

#################################################################
## <summary>
## Manage files under /bootflash/certs, cert files for AP
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_wlc_ap_cert_manage',
    gen_require(
        type polaris_ap_cert_file_t;
    )

manage_files_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
manage_dirs_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
)

#################################################################
## <summary>
## Manage SERDES key directory and files
## SERDES library stores info in /tmp/serdes_asic_key_dir/*
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_serdes_asic_key_tmp_manage',
    gen_require(
        type polaris_serdes_asic_key_tmp_t;
    )

files_tmp_filetrans($1, polaris_serdes_asic_key_tmp_t, {dir file}, "serdes_asic_key_dir")
manage_dirs_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
)
### <summary>
### Manage polaris_tech_support_tmp_t in /tmp.
### </summary>
### <summary>
### Domain allowed access.
### </summary>
```
interface('polaris_tech_support_tmp_read',
  gen_require('polaris_tech_support_tmp_t;

  read_files_pattern($1, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)

')
```
# access sysctl_rpc_t
kernel_read_rpc_sysctls($1)
')

########################################
## <summary>
## Manage files and directories sysfs. This should only be used
## if the interface needs sysfs_t create access. Otherwise please use
## dev_rw_sysfs
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_sysfs_manage',
#gen_require(  
type sysfs_t;
#  
manage_files_pattern($1, sysfs_t, sysfs_t)
#)

########################################
## <summary>
## Check access to the init/systemd executable.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_init_access_check',
#gen_require(  
type init_exec_t;
#  
init_access_check($1)
#allow $1 init_exec_t:file {open read};
#allow $1 init_exec_t:lnk_file read_lnk_file_perms;
#)

########################################
## <summary>
## Manage polaris_manage_rommon_info in /tmp.
## </summary>
## <param name="domain">
##<param name="domain"
## Domain allowed access.

```c
#include
define DEVICE

type DEVICE_t;

type DEVICE_device_t;

write_chr_files_pattern($1, DEVICE_t, DEVICE_device_t)
read_chr_files_pattern($1, DEVICE_t, DEVICE_device_t)
```

## Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log

```c
#include
define DEVICE

type DEVICE_t;

type DEVICE_device_t;

filetrans_pattern($1, DEVICE_disk_bootflash_t, DEVICE_tamlib_dbg_file_t, file, "tamlib_dbg_log")
manage_files_pattern($1, DEVICE_tamlib_dbg_file_t, DEVICE_tamlib_dbg_file_t)
```

## Allow access to /dev/ddr

```c
#include
define DEVICE

type DEVICE_t;

type DEVICE_device_t;

write_chr_files_pattern($1, DEVICE_t, DEVICE_device_t)
read_chr_files_pattern($1, DEVICE_t, DEVICE_device_t)
```
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#
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#

### <summary>Polaris tams_rp Policy Rules.</summary>

```
# Allow polaris_tams_rp_t unix stream socket connect
## <summary>
## Domain allowed access.
## </summary>
```

```
interface('polaris_tams_rp_socket_connect',
         gen_require,
         type polaris_tams_rp_t;
    )
   allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
)
```

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#
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#

# polariswncd file contexts place holder

```
/mnt/images(/.*)?  gen_context(system_u:object_r:polaris_wlc_ap_images_t,s0)
```

# polariswncd file contexts place holder

```
/mnt/images(/.*)?  gen_context(system_u:object_r:polaris_wlc_ap_images_t,s0)
```

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#
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#
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#

# /harddisk /harddisk -> /misc/scratch
/harddisk gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/misc/scratch gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

/usb0 gen_context(system_u:object_r:removable_t,s0)
/usb1 gen_context(system_u:object_r:removable_t,s0)
/misc/usb0 gen_context(system_u:object_r:removable_t,s0)
/misc/usb1 gen_context(system_u:object_r:removable_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.fc
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#
/tmp/tam_cfg_done(/.*)? gen_context(system_u:object_r:polaris_tam_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.fc
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#

## <summary>Polaris omp Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.if
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#
## <summary>Polaris TDLDB Policy Rules.</summary>

### <summary>Polaris TDLDB Policy Rules.</summary>

## Polaris tdldb (infra/tdllib)

### <summary>Polaris TDLDB Policy Rules.</summary>

#### <summary>
#### Make specified domain as one of tdldb types.
#### </summary>

#### <param name="domain">
#### The domain serving as polaris_tdldb type
#### </param>

```
interface('polaris_tdldb_type',
    gen_require('attribute polaris_tdldb;
    )
    typeattribute $1 polaris_tdldb;
    files_type($1)
    )
```

### <summary>
### List directories in /tmp/[rp][p][cc]/tdldb directories.
### </summary>

### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_tdldb_list_dirs',
    gen_require('type polaris_tdldb_t;
    )
    list_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
    )
```
## <summary>
## Use tdldb database files in /tmp/[rp|fp|cc]/tdldb
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="database_label">
## Database file label.
## </param>
## <param name="object">
## Database file name. Also used to derive lock file name.
## </param>
#
interface(`polaris_tdldb_use',`
  gen_require(`
    type polaris_tdldb_t;
    type tmp_t;
    )
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
  manage_files_pattern($1, polaris_tdldb_t, $2)
  allow $1 $2:file map;
  allow $1 polaris_tdldb_t:file lock;
  type_transition $1 polaris_tdldb_t : file $2 "$3";
  type_transition $1 polaris_tdldb_t : file $2 "$3.lock";

  # manage /var/tmp/tdldb_ene_fifo.0xYYYYY files - it seems there is
  # no way to assign separate label to them
  manage_fifo_files_pattern($1, tmp_t, tmp_t)

  # tdllib_database_handle_open_internal through libuuid calls
  # uuid_generate_time_generic, which needs access to udp socket
  # once it reaches get_node_id function
  allow $1 self:udp_socket { create ioctl }
)
#
## <summary>
## Setup tdldb database persistent files in
## /tmp/[rp|fp|cc]/tdldb/persist-config
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>

## <param name="database_label">
## Database file label.
## </param>

## <param name="object">
## Database file name. Also used to derive lock file name.
## </param>

```
interface(polaris_tmp_tdldb_persist_setup, 
  gen_require(
    type polaris_tdldb_t;
    type polaris_tdldb_persist_t;
  )
  filetrans_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t, dir, "persistent-config")
  # allow creation of /tmp/rp/tdldb/persistent-config
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t)
  # Manage files inside of its own polaris_tdldb_persist_t directories
  manage_files_pattern($1, polaris_tdldb_persist_t, polaris_tdldb_persist_t)
')
```

########################################

## <summary>
## Manage tdldb directories
## </summary>

## <param name="domain">
## The domain serving as polaris_tdldb type
## </param>

```
interface(polaris_tdldb_manage_dirs, 
  gen_require(
    type polaris_tdldb_t;
  )
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
')
```

########################################

## <summary>
## Use polaris_dir_db_tdldb_t database.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <infoflow type="none"/>
#
interface('polaris_db_tldldb_dir_use',
    gen_require(
        type polaris_dir_db_tldldb_t;
    )
    polaris_tldldb_use($1, polaris_dir_db_tldldb_t, DB_DIR)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.if
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#
# August 2017, Shawn Lu
#
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#
policy_module(polariswncd, 1.0);

gen_require(''
    type polaris_wncd_t;
')

polaris_btrace_data_manage(polaris_wncd_t)
polaris_hrf_data_manage(polaris_wncd_t)
polaris_chasfs_data_manage(polaris_wncd_t)
polaris_tldresolve_read(polaris_wncd_t)
polaris_tldldb_list_dirs(polaris_wncd_t)
polaris_cpld_read(polaris_wncd_t)
polaris_lua_read(polaris_wncd_t)
polaris_flashlib_read(polaris_wncd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncd_t)
polaris_db_tldldb_dir_use(polaris_wncd_t)

#wncd need setrlimit to change limit of resource
allow polaris_wncd_t self:process setrlimit;
allow polaris_wncd_t self:capability sys_resource;
#allow tcp connection from http port
allow polaris_wncd_t self:capability net_bind_service;
corenets_tcp_bind_http_port(polaris_wncd_t)

#allow udp for dhcpd
corenets_udp_bind_dhcpd_port(polaris_wncd_t)
corenets_udp_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg };

#allow AF_PACKET
allow polaris_wncd_t self:capability net_raw;
allow polaris_wncd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# required in function ewlc_capwap_dgram_srvr_state_update()
allow polaris_wncd_t self:rawip_socket { create_socket_perms setopt ioctl };
corenets_raw_bind_generic_node(polaris_wncd_t)

gen_require(
    'type port_t;
')
allow polaris_wncd_t port_t:rawip_socket name_bind;

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wncd_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_wncd_t)
polaris_socketat_nsfs_read(polaris_wncd_t)

#each instance of wncd has a devshell support
corenets_tcp_bind_polaris_wncd_devshell_port(polaris_wncd_t)

# extra instances of wncd do set up cyan database for given elastic number
polaris_dyncfg_setup(polaris_wncd_t)

allow polaris_wncd_t self:capability dac_override;

#wncd does ionotify for /bootflash/apple_device_map.xml file in
# wsa_notif_register_filepath function
polaris_bootflash_read(polaris_wncd_t)
polaris_persistent_watch(polaris_wncd_t)

# manage pem certificates on /bootflash
polaris_persistent_manage(polaris_wncd_t)

# for /dev/shm/cerrno_dll
polaris_cerr_shm_manage(polaris_wncd_t)

########################################################################
# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images
########################################################################

type polaris_wlc_ap_images_t;
files_type(polaris_wlc_ap_images_t)

# wncd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/0/0/0/0/0/0/rp_wlc/mount/mnt/images/ap_pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncd_t)

# wncd works with AF_NETLINK NLMSG_APP_SIP ewlc_sip_netlink_sock_init
allow polaris_wncd_t self:netlink_socket create_socket_perms;

logging_send_syslog_msg(polaris_wncd_t)

# binds to mdns port from mdns_ipv4_socket_init function
corenct_udp_bind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenct_udp_bind_polaris_capwap_ctr_port(polaris_wncd_t)
corenct_udp_bind_polaris_capwap_data_port(polaris_wncd_t)

# allow read/write/mmap access to awips file
#gen_require(`
type polaris_awips_signature_file_t;
`)
allow polaris_wncd_t polaris_awips_signature_file_t:file { map read open getattr unlink};

# allow read/ write / unlink access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_wncd_t)

# wncd ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenct_tcp_connect_lisp_cons_control_port(polaris_wncd_t)

# binds to mdns bcp port from mdns bcp function
corenct_udp_bind_mdns_bcp_port(polaris_wncd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_wncd_t)
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.te
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#

## <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

###############################################
## <summary>
##     Connect to and send messages to /tmp/idope_svr and
## /tmp/shfwd_svr unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_fed_debug_sock_write',
  gen_require(
    type polaris_fed_debug_sock_t;
    type polaris_ngwc_fed_debug_mgr_t;
    type tmp_t;
    ')

  allow $1 self:unix_stream_socket {create_socket_perms};
  allow $1 polaris_ngwc_fed_debug_mgr_t:unix_stream_socket {connectto};
  write_sock_files_pattern($1, tmp_t, polaris_fed_debug_sock_t)
' )

---

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#

policy_module(polarispsd, 1.0);
gen_require(
    type polaris_psd_t;
)

polaris_btrace_data_manage(polaris_psd_t)
polaris_crft_data_manage(polaris_psd_t)
polaris_chasfs_manage(polaris_psd_t)
polaris_tdlresolve_read(polaris_psd_t)
polaris_tdldb_list_dirs(polaris_psd_t)
polaris_cpld_read(polaris_psd_t)
polaris_flashlib_read(polaris_psd_t)

polaris_ripc_sman_ui_serv_connect(polaris_psd_t)

polaris_db_tdldb_dir_use(polaris_psd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_psd_t)

# psd wants to run /usr/binos/bin/cfgwr command
corecmd_exec_bin(polaris_psd_t)
corecmd_exec_shell(polaris_psd_t)

# provide objstore access
polaris_disk_objstore_read(polaris_psd_t)

# work with /tmp files (/tmp/sh-thd-*)
type polaris_psd_tmp_t;
files_tmp_file(polaris_psd_tmp_t)
files_tmp_filenotrans(polaris_psd_tmp_t, polaris_psd_tmp_t, file)
manage_files_pattern(polaris_psd_t, polaris_psd_tmp_t, polaris_psd_tmp_t, polaris_psd_tmp_t)

polaris_obfl_data_read(polaris_psd_t)

allow polaris_psd_t self:capability { fsetid };

allow polaris_psd_t self:capability { dac_override chown };
allow polaris_psd_t self:netlink_route_socket rw_netlink_socket_perms;

logging_send_syslog_msg(polaris_psd_t)

#psd need detect which terminal to use as console, need read permission to ttyS*
# psd need read/write grub configure file /boot/grub/menu.*: read /boot/grub/menu.bak
# , generate /boot/grub/menu.list
# read access to bootflash for bin file loading
ifdef('vxe_family',
  term_use_unallocated_ttys(polaris_psd_t)
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef('wlc_family',
  term_use_unallocated_ttys(polaris_psd_t)
bootloader_rw_config(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef('vwlc_platform',
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
')
polaris_disk_csl_manage(polaris_psd_t)

fs_read_nsfs_files(polaris_psd_t)

polaris_dyncfg_tmp_read(polaris_psd_t)

polaris_read_packages_conf(polaris_psd_t)

# handling /tmp/restconf
type polaris_restconf_t;
files_tmp_file(polaris_restconf_t)

files_tmp_filetrans(polaris_psd_t, polaris_restconf_t, dir, "restconf")
polaris_restconf_manage(polaris_psd_t)

# handling /tmp/.ncsshd_authorized_keys
type polaris_ncsshd_keys_t;
files_tmp_file(polaris_ncsshd_keys_t);

files_tmp_filetrans(polaris_psd_t, polaris_ncsshd_keys_t, dir, ".ncsshd_authorized_keys")
polaris_ncsshd_keys_manage(polaris_psd_t)

polaris_tmp_tldlb_persist_setup(polaris_psd_t)

polaris_tldldbpersist_setup(polaris_psd_t)

# write mem updates the grub config files
optional_policy('
polaris_grubcfg_manage(polaris_psd_t)
')
No license file was found, but licenses were detected in source scan.

# February 2020, Victor Kamensky
#
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#
### <summary>Polaris fpm Policy Rules.</summary>

# Write fpm /var/run socket file
#
### <summary>
## Write fpm /var/run socket file
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### </param>
#
interface('polaris_fpm_var_sock_write',
    gen_require(
        type polaris_fpm_t;
        type polaris_fpm_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_fpm_var_run_t)
    allow $1 polaris_fpm_t:unix_stream_socket { connectto };
')

# Manage mqipc fpm2fmrp shared memory file in /dev/shm directory
#
### <summary>
## Manage mqipc fpm2fmrp shared memory file in /dev/shm directory
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### </param>
#
interface('polaris_fpm2fmrp_mqipc_use',
    gen_require(
        type polaris_fpm2fmrp_mqipc_t;
    )
    polaris_mqipc_use($1, polaris_fpm2fmrp_mqipc_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.if

No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
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#

## <summary>Polaris Doppler Policy Rules.</summary>

######################################
## <summary>
## Work (read, write, ioctl) with /dev/dmamap
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
#
interface('polaris_dmammap_dev_use',
        gen_require(
            type device_t;
            type polaris_dmammap_device_t;
        )
        write_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
read_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
allow $1 polaris_dmammap_device_t:chr_file map;
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/dmamap
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
#
interface('polaris_dplr_dev_use',
        gen_require(
            type device_t;
        )
        write_chr_files_pattern($1, device_t, polaris_dplr_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_device_t)
allow $1 polaris_dplr_device_t:chr_file map;
')
type polaris_dplr_device_t;
')
write_chr_files_pattern($1, device_t, polaris_dplr_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_device_t)
allow $1 polaris_dplr_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/binos/conf/pvp.sh -- gen_context(system_u:object_r:polaris_pvp_exec_t,s0)
/tmp/sw/rp/max_elastic_bays -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)

/tmp/cc/0(/.*)?                          gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/cc/*.pvp(/.*)?                      gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/fp/pvp(/.*)?                        gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/oir/sw_lic_service(/.*)?    gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/oir/sw_csl_service(/.*)?    gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/oir/rp_(.*)(/.*).?          gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp(process_state(/.*)?          gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/fp/pvp/process_state(/.*)?         gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/cc/pvp/process_state(/.*)?         gen_context(system_u:object_r:polaris_process_state_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#
policy_module(polariswlc, 1.0);

# hanet driver used by vwlc, is there better place for it?
type polaris_hanet_device_t;
dev_node(polaris_hanet_device_t)

gen_require(''
    type polaris_wlc_ap_images_t;
    type mnt_t;
    attribute polaris_extended_domain;
')

# transition when /mnt/images is created
filetrans_pattern(polaris_extended_domain, mnt_t, polaris_wlc_ap_images_t, dir, "images")

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# on vwlc all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(''
    attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

# /dev/sfp-ktr device
type polaris_sfp_katar_device_t;
dev_node(polaris_sfp_katar_device_t)

# handle /tmp/vxe_disk_XXX_YYY files
ifdef('vwlc_platform','

gen_require("
    type unconfined_service_t;
")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)
")
type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

# on VWC, all processes read grubenv from EFI disk partition.
gen_require("
    attribute polaris_domain;
")
polaris_vwlc_grub_efi_search(polaris_domain)

type polaris_vwlcinstall_info_t;
polaris_pfile_type(polaris_vwlcinstall_info_t)

gen_require("
    type unconfined_service_t;
    type polaris_disk_varied_t;
")
# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vwlcinstall_info_t, file, ".install_info")

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.te

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#
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#
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#
#/

tmp/sw/boot/rmonbifo(/.*)?  gen_context(system_u:object_r:polaris_rmonbifo_tmp_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.fc
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#
#
# polarisbtlogger file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.fc
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# # March 2017, Victor Kamensky
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#
#
policy_module(polarisnifmgr, 1.0);

gen_require('  type polaris_nif_mgr_t;
')

polaris_ripc_sman_ui_serv_connect(polaris_nif_mgr_t)
polaris_btrace_data_manage(polaris_nif_mgr_t)
polaris_crft_data_manage(polaris_nif_mgr_t)
polaris_chasfs_manage(polaris_nif_mgr_t)
polaris_tdlresolve_read(polaris_nif_mgr_t)
polaris_tdlldb_list_dirs(polaris_nif_mgr_t)
polaris_cpld_read(polaris_nif_mgr_t)
polaris_lua_read(polaris_nif_mgr_t)
polaris_flashlib_read(polaris_nif_mgr_t)

#if romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_nif_mgr_t)

logging_send_syslog_msg(polaris_nif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_nif_mgr_t self:tcp_socket ioctl;
# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_nif_mgr_t)

# /dev/shm/sdm access
optional_policy(
  polaris_sdm_shm_manage(polaris_nif_mgr_t)
)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_nif_mgr_t)

# allow create and write access to the /proc/*/sesa file

gen_require(
  type polaris_proc_sesa_t;
)
polaris_proc_sesa_create_write(polaris_nif_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.te
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmiopdatamgrd, 1.0);

gen_require(
  type polaris_dmi_opdatamgrd_t;
)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_dmi_opdatamgrd_t)

# work with /var/log/dmi/ files
type polaris_dmi_var_log_t;
logging_log_file(polaris_dmi_var_log_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
logging_log_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, dir, "dmi")
polaris_chasfs_manage(polaris_dmi_opdatamgrd_t)
polaris_btrace_data_manage(polaris_dmi_opdatamgrd_t)
polaris_cpld_read(polaris_dmi_opdatamgrd_t)
polaris_boot_tmp_read(polaris_dmi_opdatamgrd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_dmi_opdatamgrd_t)

# this (opdatamgrd.sh) process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_dmi_opdatamgrd_t)
corecmd_exec_bin(polaris_dmi_opdatamgrd_t)

# allow read of /etc/passwd
# passwd_file_t.file { getattr open read };
auth_use_nsswitch(polaris_dmi_opdatamgrd_t)

# opdatamgrd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_dmi_opdatamgrd_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_dmi_opdatamgrd_t)

allow polaris_dmi_opdatamgrd_t self:capability { sys_resource dac_override };

# handling of /tmp/stream-parsers
type polaris_dmi_parser_t;
files_tmp_file(polaris_dmi_parser_t)
files_tmp_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, dir, "stream-parsers")
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, tmp_t, polaris_dmi_parser_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, polaris_dmi_parser_t)

mount_domtrans(polaris_dmi_opdatamgrd_t)

# confd_cli runs under our label
allow polaris_dmi_opdatamgrd_t self:tcp_socket create_socket_perms;

# runs ps that wants to have access to containers files
optional_policy(
  polaris_disk_vman_dir_list(polaris_dmi_opdatamgrd_t)
  )
polaris_sandbox_file_dir_list(polaris_dmi_opdatamgrd_t)
polaris_sandbox_file_getattr(polaris_dmi_opdatamgrd_t)

# runs find to search all 'parse.*' files
# find . -perm /111 -name parse.* -exec basename {} ;
# LOOK AT ME it seems that it does search on customer visible
# directories, can and whether customer supposed to be
# able give parse.* files to dmi opdatamgrd, could it
# be exploited?
files_getattr_all_files(polaris_dmi_opdatamgrd_t)
files_getattr_all_dirs(polaris_dmi_opdatamgrd_t)

# access to /dev/pts/0
ssh_use_ptys(polaris_dmi_opdatamgrd_t)

# directly work with to /dev/ttyS1
term_use_unallocated_ttys(polaris_dmi_opdatamgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.te
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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris ngwc_fed Policy Rules.</summary>

##################################################
### <summary>
###     Connect to and send messages to /tmp/dbgmn_log_sv unit
###     datagram socket.
### </summary>
### <param name="domain">
###     Domain allowed access.
### </param>
#
interface(`polaris_fed_sock_write`,
    gen_require(`
        type polaris_fed_sock_t;
        type polaris_ngwc_fed_t;
        type tmp_t;
    `)
)

    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
`)
## <summary>
## Allow the specified domain able to read fed /tmp files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
## <param name="object">
## File name in /tmp that the fed domain creates and other domains
## access.
## </param>
#
# interface('polaris_fed_tmp_files_read',`
    gen_require(`
        type polaris_fed_tmp_t;
    `)
    read_files_pattern($1, polaris_fed_tmp_t, polaris_fed_tmp_t)
`)

################################
## <summary>
## Allow to read and write /tmp/epc_ws/fed_to_wif_pipe file.
## </summary>
## <param name="domain">
## epc_ws_liaison and ngwc-fed pipe interaction.
## </param>
#
# interface('polaris_fed_shm_file_read',`
    gen_require(`
        type polaris_ngwc_fed_t;
    `)
    allow $1 polaris_ngwc_fed_t:shm { associate read unix_read unix_write write };
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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policy_module(polarisdmivtyserverutild, 1.0);

gen_require(
    type polaris_dmi_vtyserverutild_t;
')

polaris_btrace_data_manage(polaris_dmi_vtyserverutild_t)
polaris_chasfs_manage(polaris_dmi_vtyserverutild_t)
polaris_tdlresolve_read(polaris_dmi_vtyserverutild_t)
polaris_tdlldb_list_dirs(polaris_dmi_vtyserverutild_t)
polaris_cpld_read(polaris_dmi_vtyserverutild_t)
polaris_flashlib_read(polaris_dmi_vtyserverutild_t)

allow polaris_dmi_vtyserverutild_t self:socket { connect create read write };

type polaris_dmi_vtyserverutild_tmp_t;
files_tmp_file(polaris_dmi_vtyserverutild_tmp_t)
files_tmp_filetrans(polaris_dmi_vtyserverutild_tmp_t, polaris_dmi_vtyserverutild_tmp_t, fifo_file, ".DMI_FIFO")
manage_fifo_files_pattern(polaris_dmi_vtyserverutild_t, polaris_dmi_vtyserverutild_tmp_t, polaris_dmi_vtyserverutild_tmp_t)

logging_send_syslog_msg(polaris_dmi_vtyserverutild_t)

No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`mqipc_stem', `translit(patsubst($1, `^-mqipc$', `'), `-', `_')')
define(`mqipc_label', `format(`polaris_%s_mqipc_t', mqipc_stem($1))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc.m4
No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
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#

## <summary>Polaris Cabo GNSS Policy Rules.</summary>

#########################################
## <summary>
## Work (read, write, ioctl) with /dev/ttyS1
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cabo_gnss_dev_use',`
   gen_require(`
     type device_t;
     type polaris_cabo_gnss_device_t;
   `)
   write_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
   read_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
   allow $1 polaris_cabo_gnss_device_t:chr_file map;
`) 

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.if
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#
# June 2017, Victor Kamensky
#
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#
policy_module(polaristservice, 1.0);

polaris_process_domain_template(tservice_telnet)

polaris_process_domain_template(tservice_ssh)

gen_require(
    type inetd_exec_t, inetd_t;
')
domtrans_pattern(polaris_tservice_telnet_t, inetd_exec_t, inetd_t)

polaris_chasfs_manage(polaris_tservice_telnet_t)
polaris_btracefs_data_manage(polaris_tservice_telnet_t)
polaris_cpld_read(polaris_tservice_telnet_t)
polaris_boot_tmp_read(polaris_tservice_telnet_t)
polaris_rmonbifo_tmp_read(polaris_tservice_telnet_t)

corecmd_exec_shell(polaris_tservice_telnet_t)
corecmd_exec_bin(polaris_tservice_telnet_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tservice_telnet_t)

dmidecode_domtrans(polaris_tservice_telnet_t)

allow polaris_tservice_telnet_t self:capability sys_resource;
kernel_read_system_state(polaris_tservice_telnet_t)

gen_require(
    type initrc_exec_t, initrc_t;
')
domtrans_pattern(polaris_tservice_telnet_t, initrc_exec_t, initrc_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_tservice_telnet_t)

# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/shin/xinetd -f
# /tmp/chassis/local/0p/cha/f/local/0/00/0/0/etc/xinetd/xinetd_telnetd.conf
polaris_chvrf_domtrans(polaris_tservice_telnet_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.te
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#
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#
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#

### <summary>Polaris WLC Platform Policy Rules.</summary>

#################################################################
### <summary>
###     Work (read, write, ioctl) with /dev/hanet
### </summary>
### </summary>
### <param name="domain">
###     <summary>
###     Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_hanet_dev_use`,
    gen_require(`
            type device_t;
            type polaris_hanet_device_t;
        `)
    write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    `)

#################################################################
### <summary>
###     Work (read, write, ioctl) with /dev/epa[0-9]* and
###     /dev/epactrl[0-9]*
### </summary>
### </summary>
### <param name="domain">
###     <summary>
###     Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_epa_dev_use`,
    gen_require(`
            type device_t;
            type polaris_epa_device_t;
        `)
    write_chr_files_pattern($1, device_t, polaris_epa_device_t)
    read_chr_files_pattern($1, device_t, polaris_epa_device_t)
    allow $1 polaris_epa_device_t:chr_file map;
    `)

#################################################################
### <summary>
###     Work (read, write, ioctl) with /dev/luna_mbfpga device
### <param name="domain">
###    <summary>
###    Domain allowed access.
###    </summary>
### </param>
#
# interface(polaris_luna_mbfga_dev_use',
gen_require(
    type device_t;
    type polaris_luna_mbfga_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_luna_mbfga_device_t)
    read_chr_files_pattern($1, device_t, polaris_luna_mbfga_device_t)
')

######################################
### <summary>
###      Work (read, write, ioctl) with /dev/astro device
### </summary>
### <param name="domain">
###    <summary>
###    Domain allowed access.
###    </summary>
### </param>
#
# interface(polaris_astro_dev_use',
gen_require(
    type device_t;
    type polaris_astro_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_astro_device_t)
    read_chr_files_pattern($1, device_t, polaris_astro_device_t)
')

######################################
### <summary>
###      Work (read, write, ioctl) with /dev/cpp_il device
### </summary>
### <param name="domain">
###    <summary>
###    Domain allowed access.
###    </summary>
### </param>
#
# interface(polaris_cpp_il_dev_use',
gen_require(
    type device_t;

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  10507

type polaris_cpp_il_device_t;
)
    write_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
)

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/oob_evfc device
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_oob_evfc_dev_use',
gen_require(
    type device_t;
    type polaris_oob_evfc_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
    read_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
    )

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/sfp-ktr device
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_sfp_katar_dev_use',
gen_require(
    type device_t;
    type polaris_sfp_katar_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
    read_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
    )

########################################################################
## Read vWLC install info files
## </summary>
## <param name="domain">
##      <summary>
##          Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vwlclinstall_info_read',`
gen_require(`
type polaris_vwlclinstall_info_t;
')
read_files_pattern($1, polaris_vwlclinstall_info_t, polaris_vwlclinstall_info_t)
list_dirs_pattern($1, polaris_vwlclinstall_info_t, polaris_vwlclinstall_info_t)
')

######################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vwlgrub_info_read',`
gen_require(`
type polaris_grubver_t;
type polaris_grub_bios_t;
type polaris_grub_efi_t;
')
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

######################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vwlc_grub_efi_search',
gen_require(
    type polaris_grub_efi_t;
    ')
search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/vda1 device
## </summary>
## <param name="domain">
##    <summary>
##            Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_vwlc_grub_efi_use',
gen_require(
    type polaris_grub_efi_t;
    ')
write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.if
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dnl
define('database_stem', `translit(patsubst($1, `_DB$', `'), `A-Z', `a-z'))
define('database_label', `format(`polaris_%s_db_tdldb_t', database_stem($1))')

define('database_use_map', `defn(format(``database_use_map[%s-%s]'', `$1', `$2'))')
define('database_use_map_set', `define(format(``database_use_map[%s-%s]'', `$1', `$2'), `$3'))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db.m4
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#
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#
#
policy_module(polarsidmidmiamuthd, 1.0);

gen_require(
    type polaris_dmi_dmiauthd_t;
)

polaris_btrace_data_manage(polaris_dmi_dmiauthd_t)
polaris_crft_data_manage(polaris_dmi_dmiauthd_t)
polaris_chasfs_manage(polaris_dmi_dmiauthd_t)
polaris_tdlresolve_read(polaris_dmi_dmiauthd_t)
polaris_tldldb_list_dirs(polaris_dmi_dmiauthd_t)
polaris_cpld_read(polaris_dmi_dmiauthd_t)
polaris_flashlib_read(polaris_dmi_dmiauthd_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_dmiauthd_t)
polaris_db_tldldb_dir_use(polaris_dmi_dmiauthd_t)

# dmiauthd creates and binds to /tmp/DmiAuth.socket unix socket
type polaris_dmi_dmiauthd_tmp_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, { sock_file fifo_file })
manage_sock_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
manage_fifo_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)

# dmiauthd creates diagnostic files in /tmp/netconf-yang-diag
type polaris_dmi_dmiauthd_tmp_dirs_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_dirs_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_dirs_t, dir, "netconf-yang-diag")
polaris_dmiauthd_tmp_dirs_manage(polaris_dmi_dmiauthd_t)

logging_send_syslog_msg(polaris_dmi_dmiauthd_t)

# read confd log file and push into btrace
polaris_confd_log_read(polaris_dmi_dmiauthd_t)

# from dmilib iosp_connect through libiosp iosp_token_read_from_file
# iosp_token_read_from_file reads /tmp/rp/iosp_dmiauthd
# from dmiauthd_token_read(polaris_dmi_dmiauthd_t)

gen_require(
    type polaris_confd_tmp_t;
)
# This is applicable to wireless platforms running in standby monitoring mode
# wherein dmiauthd create temporary files in /tmp/confd upon switchover and
# trigger ConfD restart.
manage_files_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)

# "show netconf-yang diagnostics [all | last | message]" invokes
# /usr/binos/conf/dmid_diag_logs.sh

polaris_utility_domain_template(dmid_diag_logs)
polaris_bexecute_domtrans(polaris_dmi_dmiauthd_t)
polaris_bexecute_domain(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_exec_t)

# signal sent during the show cmd
polaris_send_signal_to_bexecute(polaris_dmi_dmiauthd_t)

# read files in /tmp/netconf-yang-diag
polaris_dmiauthd_tmp_diags_read(polaris_dmid_diag_logs_t)

# need write/ioctl/getattr access for pipes
polaris_dmiauthd_use_fifo(polaris_dmid_diag_logs_t)
polaris_use_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_data_manage(polaris_dmid_diag_logs_t)
polaris_cpld_read(polaris_dmid_diag_logs_t)
dev_read_sysfs(polaris_dmid_diag_logs_t)
auth_use_nsswitch(polaris_dmid_diag_logs_t)
polaris_boot_tmp_read(polaris_dmid_diag_logs_t)
fs_getattr_tmpfs(polaris_dmid_diag_logs_t)

# bash tmp files, such as /tmp/sh-thd-1599654988
type polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, polaris_dmid_diag_logs_tmp_t)

# execute /bin/sed
corecmd_exec_bin(polaris_dmid_diag_logs_t)

# Allow diagnostics feature to create log file in bootflash

# execute /bin/tar
corecmd_exec_bin(polaris_dmi_dmiauthd_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_dmi_dmiauthd_t)
# create log file in bootflash
polaris_bootflash_manage(polaris_dmi_dmiauthd_t)

########################################################################
allow polaris_dmi_dmiauthd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.te
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#
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#

/opt/confd/bin/confd -- gen_context(system_u:object_r:polaris_confnd_exec_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/mmap_schema --
gen_context(system_u:object_r:polaris_mmap_schema_exec_t,s0)
/usr/binos/bin/vip-confd-startup.sh -- gen_context(system_u:object_r:polaris_confnd_exec_t,s0)
/usr/bin/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_confnd_exec_t,s0)
/usr/binos/conf/confd_cli.sh -- gen_context(system_u:object_r:polaris_confnd_cli_exec_t,s0)
/usr/binos/conf/confd_logs.sh -- gen_context(system_u:object_r:polaris_confnd_exec_t,s0)
/var/confd0(/.*)? gen_context(system_u:object_r:polaris_confnd_var_t,s0)
/dev/shm/confd(/.*)? gen_context(system_u:object_r:polaris_confndshm_t,s0)
/tmp/confd(/.*)? gen_context(system_u:object_r:polaris_confnd_tmp_t,s0)
/tmp/confd_cli(/.*)? gen_context(system_u:object_r:polaris_confnd_cli_tmp_t,s0)
/tmp/confd0(/.*)? gen_context(system_u:object_r:polaris_vconfd_tmp_t,s0)
/usr/bin/vconfd_script_.*admin_tech.*.sh -- gen_context(system_u:object_r:polaris_admin_tech_exec_t,s0)
/var/ttech(/.*)? gen_context(system_u:object_r:polaris_admin_tech_var_t,s0)

/bootflash/admintech gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/admintech_trace gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/MEMORY_LOG_.*\.text gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/collated_log_ * gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)

/bootflash/tracelogs/cia-netconf-trace\.* gen_context(system_u:object_r:polaris_confnd_var_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.fc
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#
policy_module(polarisunconfined, 1.0);

## <desc>
## <p>
## IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_iosd, true)

## <desc>
## <p>
## All polaris processes except IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_all, true)

gen_require(
    type apmd_t;
    type auditd_t;
    type inetd_t;
    type init_t;
    type initrc_t;
    type journalctl_t;
    type rpcbind_t;
    type rpd_t;
    type sshd_t;
    type syslogd_t;
    type telnetd_t;
    type udev_t;
    type virtd_t;
    type virtlogd_t;
    type vmtools_t;
    type ifconfig_t;
    type setfiles_t;
    type iptables_t;
    type virsh_t;
    type svirt_t;
    type svirt_lxc_net_t;
    type virtd_lxc_t;
)
polaris_domain_maybe_unconfined(apmd_t)
polaris_domain_maybe_unconfined(auditd_t)
polaris_domain_maybe_unconfined(inetd_t)
polaris_domain_maybe_unconfined(init_t)
polaris_domain_maybe_unconfined(initrc_t)
polaris_domain_maybe_unconfined(journald_t)
polaris_domain_maybe_unconfined(rpcbind_t)
polaris_domain_maybe_unconfined(rpcd_t)
polaris_domain_maybe_unconfined(sshd_t)
polaris_domain_maybe_unconfined(syslogd_t)
polaris_domain_maybe_unconfined(telnetd_t)
polaris_domain_maybe_unconfined(udev_t)
polaris_domain_maybe_unconfined(virtd_t)
polaris_domain_maybe_unconfined(virtlogd_t)
polaris_domain_maybe_unconfined(vmtools_t)
polaris_domain_maybe_unconfined(ifconfig_t)
polaris_domain_maybe_unconfined(setfiles_t)
polaris_domain_maybe_unconfined(iptables_t)
polaris_domain_maybe_unconfined(virsh_t)
polaris_domain_maybe_unconfined(svirt_t)
polaris_domain_maybe_unconfined(svirt_lxc_net_t)
polaris_domain_maybe_unconfined(virtd_lxc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.te

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#
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#
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#

/tmp/HTX-IOX(/.*)?  gen_context(system_u:object_r:polaris_htx_iox_tmp_t,s0)

# /dev/sppi_memif htx works with
/dev/sppi_memif  -c gen_context(system_u:object_r:polaris_sppi_memif_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.fc

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#


/usr/bin/os/conf/periodic.sh -- gen_context(system_u:object_r:polaris_periodic_exec_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.fc
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#

policy_module(polarislua, 1.0);

###############################################################################
# Lua policy
###############################################################################
type polaris_lua_file_t;
files_type(polaris_lua_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.te
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#
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#
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#

policy_module(polariscabognss, 1.0);

gen_require('    type polaris_cabo_gnss_t;
')

polaris_btrace_data_manage(polaris_cabo_gnss_t)
polaris_chasfs_manage(polaris_cabo_gnss_t)
polaris_tdlresolve_read(polaris_cabo_gnss_t)
polaris_cpld_read(polaris_cabo_gnss_t)
polaris_ripc_sman_ui_serv_connect(polaris_cabo_gnss_t)

# Allow sysfs read for platform ID and
# r/w on /sys/class/gpio/export
polaris_sysfs_manage(polaris_cabo_gnss_t)
dev_manage_sysfs_dirs(polaris_cabo_gnss_t)

# Allow Cabo GNSS to access/modify to GPS GPIO
polaris_ggpio_dev_read_write(polaris_cabo_gnss_t)

# Allow Cabo GNSS access to /dev/pps0
dev_rw_realtime_clock(polaris_cabo_gnss_t)

# allow system time capability to check for system timeout
allow polaris_cabo_gnss_t self:capability sys_time;

# Label Cabo GNSS TTY device
type polaris_cabo_gnss_device_t;
dev_node(polaris_cabo_gnss_device_t)

polaris_cabo_gnss_dev_use(polaris_cabo_gnss_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.te
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dnl
dnl WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `elastic', 0)
max_bay_ripc_map_set(`cc', `elastic', 1)
max_bay_ripc_map_set(`fp', `elastic', 0)

max_bay_ripc_map_set(`rp', `elastic', 7)
max_bay_ripc_map_set(`cc', `elastic', 7)
max_bay_ripc_map_set(`fp', `elastic', 7)
max_elastic_map_set("fp", \"elastic\", BPROC_WNCD, 7)
max_elastic_map_set("rp", \"elastic\", BPROC_ODM, 1)
max_elastic_map_set("cc", \"elastic\", BPROC_ODM, 1)
max_elastic_map_set("fp", \"elastic\", BPROC_ODM, 1)
max_elastic_map_set("rp", \"elastic\", BPROC_WNCD, 7)
max_elastic_map_set("cc", \"elastic\", BPROC_WNCD, 7)
max_elastic_map_set("fp", \"elastic\", BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/wlcmaps.m4
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#
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#

## <summary>Polaris rogued Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.if
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## <summary>Polaris flashcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.if
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#

policy_module(polarissmd, 1.0);
gen_require('  
  type polaris_smd_t;  
')

################################################################################
# mqipc manual, one that missing in platform tdl file
################################################################################
polaris_btrace_data_manage(polaris_smd_t)  
polaris_crft_data_manage(polaris_smd_t)  
polaris_chasfs_manage(polaris_smd_t)  
polaris_tdlresolve_read(polaris_smd_t)  
polaris_tdlldb_list_dirs(polaris_smd_t)  
polaris_cpld_read(polaris_smd_t)  
polaris_lua_read(polaris_smd_t)  
polaris_flashlib_read(polaris_smd_t)

polaris_ripc_sman_ui_serv_connect(polaris_smd_t)

# working with smd persistent/disk files
type polaris_smd_disk_t;  
polaris_disk_type(polaris_smd_disk_t)

manage_files_pattern(polaris_smd_t, polaris_smd_disk_t, polaris_smd_disk_t)

polaris_db_tdlldb_dir_use(polaris_smd_t)

# access to persist tdlldb (e.g. .dbpersist)  
polaris_tdlldbpersist_setup(polaris_smd_t)

# for /dev/shm/cerrno_dell  
polaris_errno_shm_manage(polaris_smd_t)

ifdef('nyquist_platform','
  gen_require('  
    type polaris_bt_logger_smd_mqipc_t;  
  ')  
# smd may start first and create this mqipc channel  
polaris_mqipc_create_name(polaris_smd_t, polaris_blogger_smd_mqipc_t, bt_logger_smd)  
')

polaris_lfts_dev_use(polaris_smd_t)

allow polaris_smd_t self:capability { sys_resource net_bind_service };

polaris_socketat_nsfs_read(polaris_smd_t)
allow polaris_smd_t self:process setrlimit;

corenet_tcp_bind_polaris_smd_devshell_port(polaris_smd_t)
corenet_tcp_bind_generic_node(polaris_smd_t)
allow polaris_smd_t self:tcp_socket { getattr setopt getopt bind create listen accept connect read write name_connect };
allow polaris_smd_t self:capability { net_admin sys_admin };

allow polaris_smd_t self:udp_socket { create_socket_perms recv_msg send_msg };
#ifsmutil_msg_event_cb_handler() uses netlink
allow polaris_smd_t self:netlink_socket { bind create };

# LOOK AT ME: now smd may open arbitrary port on forwarding VRF (16)
# but in SELinux there is no way to differentiate between port spaces
# across VRFs or namespaces. For now let's grant smd_t access to all ports
# regardless of VRF. In future investigate ways to be more restrictive
corenet_udp_bind_generic_port(polaris_smd_t)
corenet_udp_sendrecv_generic_port(polaris_smd_t)
# LOOK AT ME: grants access to udp_bind on any node, but if we can
# be more specific and bind only to forwarding VRF related interfaces
corenet_udp_bind_generic_node(polaris_smd_t)

# smd want to listen on http port 80 on VRF_FWD, for webauth code please see
# smd/webauth/src/webauth_io.c
corenet_tcp_bind_http_port(polaris_smd_t)

allow polaris_smd_t self:capability dac.override;

logging_send_syslog_msg(polaris_smd_t)

allow polaris_smd_t self:capability net_raw;
allow polaris_smd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# for access to disk html files (for webauth)
polaris_persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t
gen_require(
    type initrc_t;
)
polaris_bootflash_filetrans(initrc_t, polaris_smd_disk_t, dir, "dc_profile_dir")

# SANET is listening on http port(CSCvb41802)
# Hence, it needs to follow the same rule as nginx is using in polarisnginx.te
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris_smd_t)

polaris_issu_tmp_files_read(polaris_smd_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.te
No license file was found, but licenses were detected in source scan.

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# February 2020, Victor Kamensky
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#

/usr/binos/conf/cedge-tanman.sh -- gen_context(system_u:object_r:polaris_cedge_tanman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.fc
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#

/usr/binos/conf/droputil.sh -- gen_context(system_u:object_r:polaris_droputil_exec_t,s0)
/tmp/rp/dropbox(/.*)? gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)
/tmp/rp/droputil(/.*)? gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.fc
No license file was found, but licenses were detected in source scan.

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#

policy_module(polarisvman, 1.0);

    gen_require(''
        type polaris_vman_t;
    ')

    polaris_btrace_data_manage(polaris_vman_t)
polaris_crf_data_manage(polaris_vman_t)
polaris_chasfs_manage(polaris_vman_t)
polaris_tdlresolve_read(polaris_vman_t)
polaris_tldldb_list_dirs(polaris_vman_t)
polaris_cpld_read(polaris_vman_t)
polaris_flashlib_read(polaris_vman_t)

polaris_ripc_sman_ui_serv_connect(polaris_vman_t)

polaris_db_tldldb_dir_use(polaris_vman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_vman_t)

polaris_rmonbifo_tmp_read(polaris_vman_t)
polaris_boot_tmp_read(polaris_vman_t)

logging_send_syslog_msg(polaris_vman_t)

modutils_read_module_deps(polaris_vman_t)
modutils_read_module_config(polaris_vman_t)
modutils_manage_module_config(polaris_vman_t)
modutils_domtrans_insmod(polaris_vman_t)
files_read_kernel_modules(polaris_vman_t)

corecmd_exec_bin(polaris_vman_t)
corecmd_exec_shell(polaris_vman_t)

# ifconfig related, ifconfig is executed in its own context
sysnet_domtrans_ifconfig(polaris_vman_t)

# VMAN calls vman_set_congestion_control_multiplex when the count
# of the bridge users reaches 2 and needs write permissions on
# contdev_multiplex
dev_rw_sysfs(polaris_vman_t)
fs_getattr_xattr_fs(polaris_vman_t)

virt_stream_connect(polaris_vman_t)
virt_read_pid_files(polaris_vman_t)

fs_rw_cgroup_files(polaris_vman_t)
kernnel_read_system_state(polaris_vman_t)

# allow vman to read /dev/pts/*
term_use_generic_ptys(polaris_vman_t)
#allow polaris_vman_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_vman_t)

#allow vman to run brctl in it's own domain
brctl_domtrans(polaris_vman_t)
#allow vman to run /sbin/fsck in script
fstools_domtrans(polaris_vman_t)
#allow vman to mount rootfs on polaris_disk_vman_t
allow polaris_vman_t polaris_disk_vman_t:dir mounton;
fsmount_xattr_fs(polaris_vman_t)
#allow vman have capability for modify owner of the file
allow polaris_vman_t self:capability { chown fowner fsetid };
#allow vman to bind to unreserved tcp ports while it searches for
#port available to guest console to listen on
corenets_tcp_bind_unreserved_ports(polaris_vman_t)

# working with vman /var/ files
type polaris_var_vman_t;
files_var_file(polaris_var_vman_t)
files_var_filetrans(polaris_vman_t, polaris_var_vman_t, dir, "virtual-instance")
manage_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_dirs_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_sock_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)

# working with vman persitsten files
type polaris_disk_vman_t;
polaris_disk_type(polaris_disk_vman_t)
gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
)
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, dir, "virtual-instance")
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, file, "virtual-instance.conf")
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, dir, "vman_fdb")

# allow creation of /bootflash/virtual-instance.conf file
manage_files_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t)
# allow creation of /bootflash/virtual-instance and /bootflash/vman_fdb directories
manage_dirs_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t)
# vman can manage files inside of its own polaris_disk_vman_t directories
manage_files_pattern(polaris_vman_t, polaris_disk_vman_t, polaris_disk_vman_t)

# after all above transition we need to grant vman right to work with any
# persistent storage file since it needs to access and write .ova files
polaris_persistent_manage(polaris_vman_t)

# vman uses netlink socket to talk to lxc watchdog driver
# please see binos/vman/src/vman_lxc wd.c
allow polaris_vman_t self:netlink_generic_socket { create_socket_perms sendto recvfrom};
# vman calls tipc-config which in turns wants to create AF_TIPC socket
allow polaris_vman_t self:socket create_socket_perms;

# vman uses 'ip netns exec 0 ifconfig -a' command which in turns switches
# network namespace and need access to /proc/pid/ns/net file
fs_read_nsfs_files(polaris_vman_t)

# this label is created to exchange log related information between container and host.
type polaris_vman_log_t;
# By making this label belong to polaris persistent storage combined with vman inheriting rights
# to manage polaris_disk via polaris_persistent_manage(), vman gains rights to manage below dirs.
polaris_disk_type(polaris_vman_log_t)
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLpsAlert-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdUrlf-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdAmp-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdTls-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLogMappings-IOX")
allow polaris_vman_t polaris_vman_log_t:dir mounton;

# Allow vman to work with /bootflash/virtual-instance/UTD/rootfs
optional_policy(
    gen_require(
        type container_file_t;
    )
    allow polaris_vman_t container_file_t:filesystem { getattr unmount ; };
)

# Allow vman/ioxman to work with /tmp/HTX-IOX
optional_policy(
    gen_require(
        type polaris_htx_iox_tmp_t;
    )
    allow polaris_vman_t polaris_htx_iox_tmp_t:dir { getattr mounton open read ; };
)

# Allow vman to mount /tmp/binos-IOX
optional_policy(
    gen_require(
        type polaris_qfp_memif_t;
    )
    allow polaris_vman_t polaris_qfp_memif_t:dir mounton;
)

# vman_init.sh operates on /tmp/vman files
type polaris_vman_tmp_t;
files_tmp_file(polaris_vman_tmp_t)
files_tmp_filetrans(polaris_vman_t, polaris_vman_tmp_t, { file dir })
polaris_systemd_tmpfiles_tmp_filetrans(polaris_vman_tmp_t, dir, "vman")
manage_files_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_tmp_t)
manage_dirs_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_tmp_t)

# allow vman to work with /tmp/xml
fs_remount_tmpfs(polaris_vman_t)
fs_unmount_tmpfs(polaris_vman_t)
fs_unmount_xattr_fs(polaris_vman_t)
allow polaris_vman_t polaris_vman_tmp_t:dir mounton;
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_vman_t)
)

# relabel /bootflash/virtual-instance/UTD/tmpstaging to /dev/loopX
gen_require(
    type iso9660_t;
    )
allow polaris_vman_t iso9660_t:filesystem { relabelfrom };

# configure /proc/sys/net/ipv4/conf/dpbr_0/arp_announce
kernel_search_network_sysctl(polaris_vman_t)
kernal_rw_net_sysctls(polaris_vman_t)
# configure e.g. /proc/sys/vm/nr_hugepages
kernel_rw_vm_sysctls(polaris_vman_t)

# need to do bind mount of /bootflash/SHARED-IOX
mount_domtrans(polaris_vman_t)

# vman accessing files under /tmp created by initrc like /tmp/gdev/md0/gdev-info
init_read_script_tmp_files(polaris_vman_t)

# DB persistence
polaris_tdldbpersist_setup(polaris_vman_t)
polaris_tmp_tdldb_persist_setup(polaris_vman_t)

gen_require(
    type initrc_t;
    )
files_tmp_filetrans(initrc_t, polaris_vman_tmp_t, file, "cgroup.log")
dmidecode_domtrans(polaris_vman_t)

# read /etc/libvirt/libvirt.conf
virt_read_config(polaris_vman_t)

# vman_cgroup_yam1.sh through prep_csr_kumo (binos_functions-pd) checks for
# ovf-env.xml file existence in variety of directories includind
# /cdrom0/ovf-env.xml
fs_read_iso9660_files(polaris_vman_t)

# allow vman to manage loop device: finding free /dev/loopN device
# note vman code iterated over all /dev/loop* devices and try to lock
# them. As part of that iteration it tries /dev/loop_control
# what it should do instead is to use /dev/loop_control to get free
# device
dev_rw_loop_control(polaris_vman_t)

# PLEASE LOOK AT ME
# allow vman to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_vman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_vman_t self:capability sys_resource;

# allow VMAN to move disk.img to the disk
allow polaris_vman_t self:process setfscreate;

# vman mounts directories on behalf of guest containers, it uses
# specified context for guest directories, need permission to
# relabel, mount, etc.
fs_relabelfrom_xattr_fs(polaris_vman_t)
virt_relabel_sandbox_filesystem(polaris_vman_t)
virt_mounton_sandbox_file(polaris_vman_t)
virt_manage_sandbox_files(polaris_vman_t)
gen_require(`
    type svirt_sandbox_file_t;
    `)
allow polaris_vman_t svirt_sandbox_file_t:filesystem mount;

# /tmp/.flashlock operations from tdllib_startup_cfg_ignored, mcp_getmonvar
allow polaris_vman_t self:capability dac_override;

# allow vman to stat /dev/kvm, executed by vman_common_init function
dev_getattr_kvm_dev(polaris_vman_t)

# vman in getfs_info_by_mediabtype function inspects files in /tmp/gdev
gen_require(`
    type udev_tmp_t;
    `)
read_files_pattern(polaris_vman_t, udev_tmp_t, udev_tmp_t)

# /usr/binos/conf/vman_exec.sh policy
polaris_utility_domain_template(vman_shell)

polaris_bexecute_domain(polaris_vman_shell_t, polaris_vman_shell_exec_t)
# vman_exec.sh calls mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_vman_shell_t)
# mcp_chvrf.sh calls vman_exec.sh back and then it call bexec.sh
polaris_bexecute_domtrans(polaris_vman_shell_t)
corecmd_exec_bin(polaris_vman_shell_t)

# inherits stdin from telnetd
telnet_use_ptys(polaris_vman_shell_t)
#allow use of ptys for vman tech support
telnet_use_ptys(polaris_vman_tech_t)

optional_policy(')
# reads /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_vman_t)
')

# vman_is_machine_type_initialized clone needs cap_users sys_admin
allow polaris_vman_t self:cap_users sys_admin;

# vman_cgroup_yaml.sh searches for ovf-env.xml on cdrom0
fs_read_removable_files(polaris_vman_t)

# vman starts vman_init.sh that in turns calls virsh
gen_require(')
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_vman_t, virsh_exec_t, virsh_t)

polaris_bexecute_domtrans(polaris_vman_t)
polaris_send_signal_to_bexecute(polaris_vman_t)

gen_require(')
    type polaris_chvrf_t;
')
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_chvrf_t)

# vman calls code_sign_verify VmanPackage
polaris_code_verify_domtrans(polaris_vman_t)

# vm_net_dev_utilization reads /proc/2962/net/dev
kernel_read_network_state(polaris_vman_t)
polaris_iosd_vcpu_read(polaris_vman_t)

# /usr/binos/conf/cgroup_reports.sh
polaris_utility_domain_template(cgroup_reports)

polaris_bexecute_domain(polaris_cgroup_reports_t, polaris_cgroup_reports_exec_t)
polaris_bexecute_domtrans(polaris_cgroup_reports_t)
# inherited as stdin/stdout from vman
polaris_vman_use_fifo(polaris_cgroup_reports_t)

corecmd_exec_bin(polaris_cgroup_reports_t)
auth_use_nsswitch(polaris_cgroup_reports_t)

fs_read_cgroup_files(polaris_cgroup_reports_t)
fs_list_cgroup_dirs(polaris_cgroup_reports_t)

# cgroup_reports.sh creates misc files under /tmp
type polaris_cgroup_reports_tmp_t;  
files_type(polaris_cgroup_reports_tmp_t)
files_tmp_filetrans(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, file)
manage_files_pattern(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t)
fs_getattr_tmpfs(polaris_cgroup_reports_t)

# /usr/binos/conf/vman_techsupport.sh
polaris_utility_domain_template(vman_tech)

polaris_bexecute_domain(polaris_vman_tech_t, polaris_vman_tech_exec_t)
polaris_bexecute_domtrans(polaris_vman_tech_t)
# inherited as stdin/stdout from vman
polaris_vman_use_fifo(polaris_vman_tech_t)

# vman_techsupport.sh starts virsh -c qemu:///system list --all
gen_require('  
   type virsh_t;
   type virsh_exec_t;
')
domtrans_pattern(polaris_vman_tech_t, virsh_exec_t, virsh_t)

# starts ip link show
sysnet_domtrans_ifconfig(polaris_vman_tech_t)

# starts brctl show
brctl_domtrans(polaris_vman_tech_t)

corecmd_exec_bin(polaris_vman_tech_t)
auth_use_nsswitch(polaris_vman_tech_t)

polaris_proc_rmonbifo_read(polaris_vman_tech_t)
polaris_chasfs_read(polaris_vman_tech_t)
polaris_cpld_read(polaris_vman_tech_t)

# starts ps aux
kernel_read_system_state(polaris_vman_tech_t)
domain_read_all_domains_state(polaris_vman_tech_t)
dev_read_sysfs(polaris_vman_tech_t)
# get attr of stdin/stdout of misc processes
term_getattr_unallocated_ttys(polaris_vman_tech_t)
term_read_console(polaris_vman_tech_t)

# reads /bootflash/virtual-instance/
polaris_disk_vman_read(polaris_vman_tech_t)

# find /etc/libvirt/lxc -name *.xml -print
virt_read_config(polaris_vman_tech_t)
# no interface that lists virt_etc_rw_t dir
gen_require(''
    type virt_etc_rw_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_etc_rw_t, virt_etc_rw_t)

# find /var/run/libvirt -name *.xml -maxdepth 2 -print
virt_read_pid_files(polaris_vman_tech_t)
# no interface that lists virt_var_run_t dir
gen_require(''
    type virt_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_var_run_t, virt_var_run_t)
# no interface that lists virt_lxc_var_run_t dir
gen_require(''
    type virt_lxc_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_lxc_var_run_t, virt_lxc_var_run_t)
# no interface that lists qemu_var_run_t dir
gen_require(''
    type qemu_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)
# allow read of /run/libvirt/qemu
read_files_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)

# by some strange reason /var/run/libvirt/network is under dnsmasq_var_run_t label
dnsmasq_read_pid_files(polaris_vman_tech_t)
# no interface that lists dnsmasq_var_run_t dir
gen_require(''
    type dnsmasq_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, dnsmasq_var_run_t, dnsmasq_var_run_t)

polaris_vman_var_read(polaris_vman_tech_t)

# cat /proc/net/dev
kernel_read_network_state(polaris_vman_tech_t)

# find /sys/class/net -name intsvc* -type d -print
dev_list_sysfs(polaris_vman_tech_t)

# grep over /varied/ovf-env.xml
polaris_disk_varied_read(polaris_vman_tech_t)

# writes into /tmp/vman_techsupport
polaris_vman_tmp_manage(polaris_vman_tech_t)

# find over /sys/fs/cgroup/memory/machine
fs_list_cgroup_dirs(polaris_vman_tech_t)
# cat /sys/fs/cgroup/memory/machine/memory.limit_in_bytes
fs_read_cgroup_files(polaris_vman_tech_t)

# runs df command
fs_getattr_xattr_fs(polaris_vman_tech_t)
fs_getattr_all_fs(polaris_vman_tech_t)
files_getattr_all_dirs(polaris_vman_tech_t)
# getattr over /run/netns/2
fs_read_nsfs_files(polaris_vman_tech_t)

# check existence of vman btrace file before passing it to btdecode
polaris_vman_bt_getattr(polaris_vman_tech_t)
# check existence of pman btrace file for vman before passing it to btdecode
polaris_pman_bt_getattr(polaris_vman_tech_t)

# vman_techsupport.sh creates misc files under /tmp
type polaris_vman_tech_tmp_t;
files_type(polaris_vman_tech_tmp_t)
files_tmp_filetrans(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)
manage_files_pattern(polaris_vman_tech_t, polaris_vman_tech_tmp_t, polaris_vman_tech_tmp_t, polaris_vman_tech_tmp_t)

# allow vman tech support to read container logs including listing dirs
gen_require(''
    type virt_log_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_tech_t)

# allow vman to access /etc/passwd
auth_map_passwd(polaris_vman_shell_t)

#vman does lvm storage management e.g. vman_libvirt_strg_available_by_pool
lvm_domtrans(polaris_vman_t)

#Allow read of pid files e.g. /run/udev/data/b7:34
udev_read_pid_files(polaris_vman_t)

#allow vman to connect to the WAAS container for serial vman_register_socket
polaris_waas_stream_connect(polaris_vman_t)

# allow vman to pgrep
# allow to getgetattr of /proc file system
domain_read_all_domains_state(polaris_vman_t)

# allow vman to kill LXC container process that hasn't shutdown
# inspite of a shutdown command
gen_require(')
    type virtd_lxc_t;
')
polaris_vman_kill_process(virtd_lxc_t)

# allow vman to rsync using ioxman_syslib.sh
rsync_entry_type(polaris_vman_t)
corenet_tcp_connect_rsync_port(polaris_vman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.te
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#
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#

/tmp/.ncsshd_authorized_keys(/.*)? gen_context(system_u:object_r:polaris_ncsshd_keys_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.fc
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## <summary>Polaris Btrace Policy Rules.</summary>

`Polaris Btrace Policy Rules.`

### Obfl policy

```
# Obfl policy
```

### <summary>
### Read obfl files (under /obfl, /varied/obfl, etc)
### </summary>

```
## <summary>
##      Read obfl files (under /obfl, /varied/obfl, etc)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_obfl_data_read',`
    gen_require(`
        type polaris_obfl_data_t;
        type root_t;
    ')
    read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
    read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
    list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
    allow $1 polaris_obfl_data_t:file map;
')
```

### <summary>
### Manage obfl files (under /obfl, /varied/obfl, etc)
### </summary>

```
## <summary>
##      Manage obfl files (under /obfl, /varied/obfl, etc)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_obfl_data_manage',`
    gen_require(`
        type polaris_obfl_data_t;
        type root_t;
        type var_t;
    ')
    read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
    read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
    list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
    allow $1 polaris_obfl_data_t:file map;
')
```
read_link_files_pattern($1, root_t, polaris_obfl_data_t)
manage_files_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
manage_dirs_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.if
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#  
# March 2017, Victor Kamensky
#  
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#

### <summary>Polaris Btrace Policy Rules.</summary>

# RIPC policy

### <summary>
## Work with ripc
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### </param>
### </rolebase/>
#
interface('polaris_ripc',`
corenet_tcp_bind_generic_node($1)
allow $1 self:tcp_socket { getattr setopt getopt bind create listen accept connect read write };
# bipc would like to issue "setsockopt(sock, SOL_SOCKET, SO_VRF," which requires
# net_admin and sys_admin capabilities
allow $1 self:capability { net_admin sys_admin };

    polaris_socketat_nsfs_read($1)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.if
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#
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#
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#
/tmp/sw/boot(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/isos(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/bootup_timestamp            gen_context(system_u:object_r:polaris_boot_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.fc
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#
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#
# polarisservicemgr file contexts place holder

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#
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#
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#
## <summary>Polaris polarisboothelper Policy Rules.</summary>

#################################################################
## <summary>
##      Read any regular file/directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

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# interface(polaris_udev_tmp_read,`
  gen_require(`
    type polaris_udev_tmp_files_t;
  `)
  read_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
  list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
`)

#######################################
## <summary>
##      Manage any regular file/directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(polaris_udev_tmp_manage,`
  gen_require(`
    type polaris_udev_tmp_files_t;
  `)
  manage_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
  manage_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
`)

#######################################
## <summary>
##      Listdir of any regular directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(polaris_udev_tmp_list_dirs,`
  gen_require(`
    type polaris_udev_tmp_files_t;
  `)
  list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
`)

#######################################
## <summary>
##      Watch udev_tmp_files directories and files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_udev_tmp_watch',
    gen_require(''
    type polaris_udev_tmp_files_t;
    ')
    allow $1 polaris_udev_tmp_files_t:[dir file] watch;
')

Found in path(s):
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#
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#
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#
/usr/cpp/bin/cpp_driver -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_us_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwl -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlLedp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.fc
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#
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#
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#
/usr/binos/conf/mcp_monitor_process_batchmode.sh --
gen_context(system_u:object_r:polaris_monitor_process_exec_t,s0)
/usr/binos/conf/pkg_summary.sh -- gen_context(system_u:object_r:polaris_pkg_summary_exec_t,s0)
/usr/binos/conf/pkg_to_tree.sh -- gen_context(system_u:object_r:polaris_pkg_to_tree_exec_t,s0)
/tmp/myhostname gen_context(system_u:object_r:polaris_hm_tmp_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.fc

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# August 2017, Shawn Lu
#
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#
#
## <summary>Polaris odm Policy Rules.</summary>

# Mqipc channel in sub directory and multiple servers on TDL
# channel is not supported by autogen code. ODM odm_clnt2svr_data
# channel is one of those. Allow domain to be one server on it.
# ODM elastic value is 2 now, add more if need in the future.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
## <param name="mqipc_label">
##   <summary>
##   Mqipc channel file label.
##   </summary>
## </param>
#
interface('polaris_odm_clnt2svr_mqipc_create',
    gen_require(
        type polaris_odm_client2server_data_mqipc_t;
    ));
    polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b1)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b0)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data)
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#

## <summary>Polaris install_mgr Policy Rules.</summary>

######################################
## <summary>
##      Read /tmp/sw/inst_tmp_1 files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_install_mgr_tmp_read',`
  gen_require(`
  type polaris_install_mgr_tmp_t;
  `)
  list_dirs_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
  read_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
  read_link_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
  `)

######################################
## <summary>
##      Read/Write /.installer  files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_install_disk_manage',`
  gen_require(`
  type polaris_disk_bootflash_t;
  type polaris_disk_install_t;
  `)
filetrans_pattern(polaris_install_mgr_t,polaris_disk_bootflash_t, polaris_disk_install_t, dir, ".installer")
filetrans_pattern(polaris_install_mgr_t,polaris_disk_bootflash_t, polaris_disk_install_t, fifo_file, "inot_fifo")
manage_dirs_pattern($1, {polaris_disk_bootflash_t polaris_disk_install_t}, polaris_disk_install_t)
manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_fifo_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)

######################################
## <summary>
##      Read /bootflash/.installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_install_disk_read`,
        gen_require(
            type polaris_disk_install_t;
        )
        read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
)

######################################
## <summary>
##      Read copylog files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_read_user_file`,
        gen_require(
            type polaris_user_file_t;
            type device_t;
        )
        read_blk_files_pattern($1, device_t, polaris_user_file_t)
        read_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
        read_lnk_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
)

######################################
## <summary>
##      getattr for copylog files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_user_file_getattr`,
   gen_require(`
       type polaris_user_file_t;
       type device_t;
   `)
)
getattr_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
`

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.if
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#

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.fc
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dnl
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dnl
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dnl
dnl Crankshaft (Overlord, Utah, Goldbeach, Neptune, TSN and Supernova) Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 19)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 19)
max_bay_ripc_map_set(`fp', `per_bay', 0)
max_bay_ripc_map_set('rp', 'global', 0)
max_bay_ripc_map_set('cc', 'global', 19)
max_bay_ripc_map_set('fp', 'global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/crankshaftmaps.m4
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#

/usr/bin/vconfd_script_reboot\.sh -- gen_context(system_u:object_r:polaris_vconfd_reboot_exec_t,s0)
/usr/bin/vconfd_script_if_reset\.sh -- gen_context(system_u:object_r:polaris_vconfd_ifreset_exec_t,s0)
/usr/bin/vconfd_script_get_cfg\.sh -- gen_context(system_u:object_r:polaris_vconfd_cfg_exec_t,s0)
/usr/bin/vconfd_script_vmanage_list_stats\.sh -- gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_vmanage_clear_stats\.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_activate\.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/mcp_upgrade_wrapper\.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_vmanage_stats\.sh -- gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_add_chassis_numbers_to_ztp\.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_remove_chassis_numbers_from_ztp\.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_upload_chassis_number_file\.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/patch\.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_vsmart_reset_vsmart_serial_list\.sh -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/vconfd_script_cert\.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_cert\.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_root_ca_cert\.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_upload_root_ca_crt_chain\.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_uninstall_root_ca_crt_chain\.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_tlsproxy_install_certs\.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_tlsproxy_remove_certs.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_show_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_sign_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_upload_vsmart_serial_numbers.sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_upload_vedge_serial_numbers.sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_fetch_core_info.sh -- gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)
# admin-tech scripts skipped defined in some other place
/usr/bin/list_crashtech_files.sh -- gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)
/usr/bin/vconfd_script_unlock_user.sh -- gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)
/usr/bin/vconfd_script_set_password.sh -- gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)
/usr/bin/vconfd_script_container.sh -- gen_context(system_u:object_r:polaris_vconfd_contr_exec_t,s0)
/usr/bin/polaris_iox_precheck.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_install.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_upgrade.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_uninstall.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_reset.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_postcheck.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_download.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_remove.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_activate.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_utd_signupdate.sh -- gen_context(system_u:object_r:polaris_vconfd_utd_exec_t,s0)
/usr/bin/polaris_geo_db_update.sh -- gen_context(system_u:object_r:polaris_vconfd_geo_exec_t,s0)
/usr/bin/vconfd_script_vping.sh -- gen_context(system_u:object_r:polaris_vconfd_net_exec_t,s0)
/usr/bin/vconfd_script_vnping.sh -- gen_context(system_u:object_r:polaris_vconfd_net_exec_t,s0)
/usr/bin/vconfd_script_vtraceroute.sh -- gen_context(system_u:object_r:polaris_vconfd_net_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.fc
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#
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#
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#

policy_module(polaristdlresolve, 1.0);

##############################################################################
# TDLresolve policy
##############################################################################
gen_require(
    attribute polaris_extended_domain;
')

type polaris_tdlresolve_t;
files_type(polaris_tdlresolve_t)

files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve")
# tdl_boottime.sh uses /tmp/tdlresolve_tmp for some temp files
# which are moved into /tmp/tdlresolve latter
files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve_tmp")

type polaris_global_service_t;
files_type(polaris_global_service_t);

########################################################################
# rsync policy
########################################################################

 gen_require(
    type rsync_t;
    type polaris_btrace_base_t;
')
# tdl_cleanup_epochs.sh uses btrace
allow rsync_t polaris_btrace_base_t:file map;
# rsync invokes tdl_cleanup_epochs.sh as part of this set /proc/[pid]/oom_score_adj is done
allow rsync_t self:capability sys_resource;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.te
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#
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#
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#

policy_module(polarisqfp, 1.0);

polaris_process_domain_template(qfp)

polaris_cpp_process(polaris_qfp_t)
polaris_cpp_dev_use(polaris_qfp_t)
polaris_btrace_data_manage(polaris_qfp_t)
polaris_crft_data_manage(polaris_qfp_t)
polaris_chasfs_manage(polaris_qfp_t)
polaris_lsmpi_dev_use(polaris_qfp_t)
polaris_persistent_list_dirs(polaris_qfp_t);

# allow for hot add on azure
kernel_read_irq_sysctls(polaris_iodbd_t)
kernel_rw_irq_sysctls(polaris_iodbd_t)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597040.739:218): avc:  denied  { write } for  pid=30997 comm="ucode_ctl_rx"
name="config" dev="sysfs" ino=22363 scontext=system_u:system_r:polaris_qfp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_qfp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_qfp_t)

# allow access to uio devices like /dev/uio0
dev_rw_userio_dev(polaris_qfp_t)

# Platforms with QAT v1.7 need map permission also
# qae device (/dev/icp_adf_ctl)
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)

allow polaris_qfp_t userio_device_t:chr_file map;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_qfp_t)

# qfp FIA (Feature Invocation Array) resides in /dev/shm/cpp_ucode_dram
# Those are set of instructions assembled by cpp control plane and passed
# to qfp to execute.
polaris_cpp_tmpfs_exec(polaris_qfp_t)

# qfp /var/run pid file
type polaris_qfp_var_run_t;
files_pid_file(polaris_qfp_var_run_t)
manage_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
manage_dirs_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
files_pid_filetrans(polaris_qfp_t, polaris_qfp_var_run_t, { file dir })

# mmap /var/run/dpdk/rte/config
allow polaris_qfp_t polaris_qfp_var_run_t:file map;

# qfp memif directory and file
type polaris_qfp_memif_t;
files_tmp_file(polaris_qfp_memif_t);

# qfp memif interface for binos clients in /tmp/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "memif")
# creates /tmp/binos-IOX/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "binos-IOX")
polaris_qfp_memif_manage(polaris_qfp_t)

# qfp memif interface for container in /bootflash/SHARED-IOX/memif
polaris_disk_type(polaris_qfp_memif_t)
gen_require(
    type polaris_disk_bootflash_t;
)
filetrans_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_qfp_memif_t, dir, "memif")

# work with /bootflash/SHARED-IOX/memif/memif-dp-svr
polaris_utdl_container_dgram_send(polaris_qfp_t)

# work (create/open/read/write) with hugetlbs files
fs_manage_hugetlbs_dirs(polaris_qfp_t)
fs_rw_hugetlbs_files(polaris_qfp_t)
gen_require(
    type hugetlbs_t;
)
allow polaris_qfp_t hugetlbs_t:file create;

# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlbs_t:file unlink;

allow polaris_qfp_t self:capability { sys_rawio sys_nice sys_admin }; allow polaris_qfp_t self:process setsched;

# is_nic_netmap_capable function, which is used by vnic_cfg_port, needs socket to
# work with interface parameters
allow polaris_qfp_t self:udp_socket create_socket_perms;

ifdef(`crankshaft_family',
polaris_icc_broken_relocations(polaris_qfp_t)
')

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(
    polaris_dash_dev_use(polaris_qfp_t)
)

# netmap device (/dev/netmap)
type polaris_netmap_device_t;
dev_node(polaris_netmap_device_t)
polaris_netmap_dev_use(polaris_qfp_t)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(
    polaris_icp_dev_use(polaris_qfp_t)
# netmap device (/dev/svc_eng_puntNN)
type polaris_sep_device_t;
dev_node(polaris_sep_device_t)

polaris_svc_eng_punt_dev_use(polaris_qfp_t)

# transition and access to /var/log/cdal-tsn-info.log
ifdef('tsn_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef('blackheart_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# aventus needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
# transition and access to /var/log/cdal-tsn-info.log
ifdef('aventus_platform',
    gen_require(
        type syslogd_t;
    )
polaris_qfp_log_manage("cdal-tsn-info.log")
polaris_ggpio_dev_read_write(polaris_qfp_t)
polaris_ggpio_dev_read_write(syslogd_t)
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef('cabo_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef('supernova_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# LOOK AT ME: qfp process links libcrypto.so.1.0.0 which has DT_TEXTREL
# that should be addressed by CSCvj99896, once that is fixed remove below
# under CSCvj99905.
gen_require(
    type lib_t;
')

allow polaris_qfp_t lib_t:file execmod;
# LOOK AT ME: qfp process on TSN LE has executable stack with GNU_STACK marked RWE
# that should be addressed by CSCvk66808, once that is fixed remove below
# under CSCvk66832.
ifdef(`tsn_platform`,
    allow polaris_qfp_t self:process execmem;
)

# lsmpi replacement punt/inject over domain sockets
polaris_pi_uds_manage(polaris_qfp_t)
polaris_iosd_dgram_send(polaris_qfp_t)

# dpdk code reads CPU model specific register (MSR)
dev_read_cpuid(polaris_qfp_t)

# dpdk code in rte_mp_channel_init function creates and works
# with /var/run/dpdk/rte/mp_socket socket
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# dpdk code in dev_uev_socket_fd_create creates and work with
# netlink_kobj_socket uevent socket
# Note: radium with QAT v1.7 requires getattr and setopt
allow polaris_qfp_t self:netlink_kobj_socket { getattr setopt bind create };

# hal_random32_init calls hw_random32_init and it opens /dev/random
dev_read_rand(polaris_qfp_t)

gen_require(
    type sysfs_t;

    mmap_files_pattern(polaris_qfp_t, sysfs_t, sysfs_t)
)

# LOOK AT ME: remove after CSCvs34007 fixed
# qfp runs hidedir hide /bootflash/SHARED-IOX/memif
corecmd_exec_bin(polaris_qfp_t)
corecmd_exec_shell(polaris_qfp_t)
auth_use_nsswitch(polaris_qfp_t)

# CSR & C8KV use infiniband and tun/tap devices for Azure
type polaris_infiniband_device_t;
dev_node(polaris_infiniband_device_t)
polaris_infiniband_dev_use(polaris_qfp_t)

kernel_request_load_module(polaris_qfp_t)
allow polaris_qfp_t self:netlink_rdma_socket { bind create setopt };
al low polaris_qfp_t self:capability { ipc_lock net_admin net_raw };
al low polaris_qfp_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_qfp_t self:tun_socket { create relabelfrom relabelto }
corenet_rw_tun_tap_dev(polaris_qfp_t)

# CSR Azure IO model requires read access
gen_require(
    type proc_net_t;
    )
allow polaris_qfp_t proc_net_t:file { read };

# manage MLX NIC socket files in /var/tmp/net_ml5x *
type polaris_qfp_var_tmp_t:
files_tmp_file(polaris_qfp_var_tmp_t);
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_var_tmp_t, { sock_file })
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_tmp_t, polaris_qfp_var_tmp_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_xattr_fs(polaris_qfp_t)

# allow create of dir /bootflash/SHARED-IOX on first install of VM
create_dirs_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
polaris_cpld_read(polaris_qfp_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

# tsn needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`tsn_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# blackheart needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`blackheart_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# sparrow needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# Also needs access to cdal-tns-info.log
ifdef(`sparrow_platform',`
    polaris_qfp_log_manage("cdal-tns-info.log")
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# ucode also needs access to ttyUSB4
ifdef(`cabo_platform',`
    term_use_usb_tty(polaris_qfp_t)
')
# qfp starts /usr/binos/bin/net_hotremove-vxe.sh
init_read_script_files(polaris_qfp_t)

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(^
    polaris_ltx_dgram_send(polaris_qfp_t)
^
)

# net_hotremove-vxe.sh that works with /tmp/iodb
polaris_iodb_tmp_manage(polaris_qfp_t)
# net_hotremove-vxe.sh sends signal to iodbd.sh
gen_require(^
    type polaris_iodb_t;
    ^
) allow polaris_qfp_t polaris_iodb_t:process signal;
# net_hotremove-vxe.sh reads /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_qfp_t)

# long running helper script iodbd.sh
polaris_process_domain_template(iodbd)

# iodbd.sh started by /etc/init.d/binos that runs under initrc_t
gen_require(^
    type initrc_t;
    ^
)polaris_iodbdomtrans(initrc_t)

polaris_boot_tmp_read(polaris_iodb_t)
polaris_chasfs_manage(polaris_iodb_t)
polaris_cpld_read(polaris_iodb_t)
polaris_rmonbifo_tmp_read(polaris_iodb_t)

auth_use_nsswitch(polaris_iodb_t)
corecmd_exec_bin(polaris_iodb_t)

# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodb_t)
polaris_sysfs_manage(polaris_iodb_t)

# write into sysfs file like /sys/devices/pci0000:00/0000:00:00:03.2/config
dev_rw_sysfs(polaris_iodb_t)

# read/write /run/dpdk/rte/config
manage_files_pattern(polaris_iodb_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# lspci reads /etc/modprobe.d
modutils_read_module_config(polaris_iodbd_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iodbd_t)
files_map_kernel_modules(polaris_iodbd_t)

# runs dmidecode
dmidecode_domtrans(polaris_iodbd_t)
# dmidecode when run in this context needs access initrc stdin/stdout
gen_require(''
    type dmidecode_t;
    ')
init_rw_stream_sockets(dmidecode_t)

# calls ethtool -i intsvc0
sysnet_domtrans_ifconfig(polaris_iodbd_t)

# reads /etc/rc.d/init.d/binos_functions-pd-iodb
init_read_script_files(polaris_iodbd_t)

# read /proc/sys/vm/hr_hugepages
kernel_read_vm_sysctls(polaris_iodbd_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iodbd_t)

# read /proc/cmdline
kernel_read_system_state(polaris_iodbd_t)

type polaris_iodb_tmp_t;
files_tmp_file(polaris_iodb_tmp_t)

# /tmp/iodb is created by /etc/init.d/binos that runs under initrc_t
gen_require(''
    type initrc_t;
    ')
files_tmp_filetrans(initrc_t, polaris_iodb_tmp_t, dir, "iodb")
polaris_iodb_tmp_manage(initrc_t)

# udev_t can drop entries into /tmp/iodb to process
gen_require(''
    type udev_t;
    ')
polaris_iodb_tmp_manage(udev_t)

# Radium and Thallium need to check rommon version when initializing static
# interface table (access /proc/rmonbifo).
optional_policy('polaris_proc_rmonbifo_read(polaris_qfp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.te
No license file was found, but licenses were detected in source scan.

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#

## <summary>Polaris cpp_ha Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.if
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#
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#

policy_module(polarisngwctblmgr, 1.0);

gen_require('type polaris_ngwc_tbl_mgr_t;
')

polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_crft_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_chasfs_manage(polaris_ngwc_tbl_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_tbl_mgr_t)
polaris_tdlldb_list_dirs(polaris_ngwc_tbl_mgr_t)
polaris_cpld_read(polaris_ngwc_tbl_mgr_t)
polaris_lua_read(polaris_ngwc_tbl_mgr_t)
polaris_flashlib_read(polaris_ngwc_tbl_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_tbl_mgr_t)

allow polaris_ngwc_tbl_mgr_t self:capability dac_override;

polaris_dyncfg_tmp_read(polaris_ngwc_tbl_mgr_t)
No license file was found, but licenses were detected in source scan.

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#
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#

# polarisfmanrp file contexts place holder

dnl April 2018, Victor Kamensky
dnl

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dnl
define('polaris_ripc_service_server_aux','dnl
  polaris_ripc_$2_bind($3)
polaris_ripc($3)
')

define('polaris_ripc_service_server_full','dnl
  polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

define('polaris_ripc_service_server','dnl
  ifelse(ripc_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
  ripc_type_map_set(ripc_label($1), process_label($2))
')

define('polaris_ripc_service_client_aux','dnl
  polaris_ripc($3)
polaris_ripc_$2_connect($3)
')

define('polaris_ripc_service_client','dnl
  polaris_ripc_service_client_aux(ripc_label($1), ripc_stem($1), process_label($2))
dnl
')

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctlmgr.te
No license file was found, but licenses were detected in source scan.

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.fc
No license file was found, but licenses were detected in source scan.
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripe_te.m4
No license file was found, but licenses were detected in source scan.

#
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#
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#

/usr/bin/os/conf/audit_log.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/usr/bin/os/conf/audit_snapshot.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/tmp/package_biv_sums -- gen_context(system_u:object_r:polaris_kgv_data_t,s0)
/usr/bin/code_sign_verify -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/boot_verify_package -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/kgv_update -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)

/dev/shm/sem:.updatepcr8d_msg_sem   gen_context(system_u:object_r:polaris_code_verify_tmpfs_t,s0)

# /dev/aikido
/dev/aikido -c gen_context(system_u:object_r:polaris_aikido_device_t,s0)

/usr/bin/os/conf/mcp_upgrade_hwprg.sh          gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_fpga.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_cpld.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_cmds.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_utils.sh    gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/bin/tam_fw_upgrade                 gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon.sh         gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_cmds.sh    gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_helper.sh  gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_x86.sh     gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)

/dev/scansta -c gen_context(system_u:object_r:polaris_scansta_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.fc
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#
# June 2020, Cuiyan Ma
#
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#

policy_module(polarisissucompcheck, 1.0);
polaris_process_domain_template(issu_comp_check)

corecmd_exec_bin(polaris_issu_comp_check_t)
corecmd_exec_shell(polaris_issu_comp_check_t)

polaris_chasfs_manage(polaris_issu_comp_check_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_issu_comp_check_t)

# For reading tracekey from /tmp/tmppub/tracekey_cache/usr/bin/rotee
polaris_btrace_tmppub_read(polaris_issu_comp_check_t)

# For reading /sys/devices/platform/cpld/platform_type
polaris_cpld_read(polaris_issu_comp_check_t)

# For reading /tmp/sw/boot/pkginfo
polaris_boot_ttmp_read(polaris_issu_comp_check_t)

# For ls on /tmp/ufs/crashinfo
optional_policy('polaris_ncd_tmp_read(polaris_issu_comp_check_t)
')

# work with /tmp files

type polaris_issu_comp_check_tmp_t;
files_tmp_file(polaris_issu_comp_check_tmp_t)
manage_dirs_pattern(polaris_issu_comp_check_t, tmp_t, polaris_issu_comp_check_tmp_t)
manage_files_pattern(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, polaris_issu_comp_check_tmp_t)
files_tmp_filetrans(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, { file dir })

# For using push_using_rsync
polaris_chvrf_domtrans(polaris_issu_comp_check_t)

gen_require(
    type rsync_t;
    )
rsync_entry_domtrans(polaris_issu_comp_check_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_issu_comp_check_t)

# rsync inherits issu_comp_check.sh's stdout/stderr fifo files
allow rsync_t polaris_issu_comp_check_t:fifo_file write;

allow polaris_issu_comp_check_t self:capability sys_resource;

# reads /tmp/remote_sw_verinfo.txt

gen_require(

)
type rsync_tmp_t;
')
read_files_pattern(polaris_issu_comp_check_t, rsync_tmp_t, rsync_tmp_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_comp_check_t)

# hwutil modifies /sys/bus/i2c/drivers/pca9548/1-0076/reg_control
# TODO: label sysfs so that reg control gets its own label
dev_rw_sysfs(polaris_issu_comp_check_t)

# allow locking of /tmp/sysctrl_i2c.lck
# TODO: this file probably deserves its own label when created by cm_rp
polaris_cm_rp_tmp_manage(polaris_issu_comp_check_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.te
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## <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiodatamgrd.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polarispttcd, 1.0);

gen_require(
    type polaris_pttcd_t;
')
polaris_btrace_data_manage(polaris_pttcd_t)
polaris_crft_data_manage(polaris_pttcd_t)
polaris_chasfs_manage(polaris_pttcd_t)
polaris_tdlresolve_read(polaris_pttcd_t)
polaris_tdlldb_list_dirs(polaris_pttcd_t)
polaris_lua_read(polaris_pttcd_t)
polaris_flashlib_read(polaris_pttcd_t)

auth_use_nsswitch(polaris_pttcd_t)
polaris_cpld_read(polaris_pttcd_t)

allow polaris_pttcd_t self:netlink_route_socket r_netlink_socket_perms;

polaris_disk_bootflash_search(polaris_pttcd_t)
polaris_bootflash_manage(polaris_pttcd_t)
polaris_persistent_getattr(polaris_pttcd_t)

type polaris_pttcd_tmp_t;
files_tmp_file(polaris_pttcd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pttcd_tmp_t, dir, "interceptor")
gen_require(
    type polaris_btrace_tmppub_t;
)
manage_dirs_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_lnk_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)

allow polaris_pttcd_t self:tcp_socket create_stream_socket_perms;
allow polaris_pttcd_t self:udp_socket create_socket_perms;

corenets tcp_bind_generic_node(polaris_pttcd_t)
corenets tcp_bind_polaris_pttcd_port(polaris_pttcd_t)
corenets tcp_connect_polaris_pttcd_port(polaris_pttcd_t)
corenets udp_sendrecv_polaris_pttcd_port(polaris_pttcd_t)

sysnet_read_config(polaris_pttcd_t)

allow polaris_pttcd_t self:capability sys_resource;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.te

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#
# August 2017, Shawn Lu
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#

policy_module(polarisrrmmgr, 1.0);
gen_require(
    type polaris_rrm_mgr_t;
)

polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfs_manage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdlldb_list_dirs(polaris_rrm_mgr_t)
polaris_cpld_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rrm_mgr_t)
polaris_db_tdlldb_dir_use(polaris_rrm_mgr_t)

# allow to use setrlimit
allow polaris_rrm_mgr_t self:process setrlimit;
allow polaris_rrm_mgr_t self:capability sys_resource;
allow polaris_rrm_mgr_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rrm_mgr_t)
polaris_socketat_nsfs_read(polaris_rrm_mgr_t)

# allow to open udp socket on port 12134
corenet_udp_bind_polaris_rrm_mgr_port(polaris_rrm_mgr_t)
corenet_udp_bind_generic_node(polaris_rrm_mgr_t)
allow polaris_rrm_mgr_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenet_udp_bind_polaris_rrm_clnt_port(polaris_rrm_mgr_t)
polaris_odm_clnt2svr_mqipc_create(polaris_rrm_mgr_t)

# access "/bootflash/dbpersist"
polaris_tdldbusipersist_setup(polaris_rrm_mgr_t)

# access /tmp/rp/tlldb/persistent-config/ dir and files in this dir
polaris_tmp_tdlldb_persis_setup(polaris_rrm_mgr_t)

logging_send_syslog_msg(polaris_rrm_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.te
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#
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#

policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmand label

polaris_process_domain_template(dyncfg)

polaris_btrace_data_manage(polaris_dyncfg_t)
polaris_cpld_read(polaris_dyncfg_t)
polaris_lua_read(polaris_dyncfg_t)
polaris_cpld_dev_use(polaris_dyncfg_t)
polaris_rmonbifo_tmp_read(polaris_dyncfg_t)
polaris_chasfs_read(polaris_dyncfg_t)

# this script works with /tmp/dyncfg files
type polaris_dyncfg_tmp_t;
files_tmp_file(polaris_dyncfg_tmp_t)

files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, file)

manage_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_dirs_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)

corecmd_exec_bin(polaris_dyncfg_t)
corecmd_exec_shell(polaris_dyncfg_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyncfg_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyncfg_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyncfg_t self:process execmem;

# allow objstore access
polaris_disk_objstore_read(polaris_dyncfg_t)

type polaris_dyncfg_log_t;
files_tmp_file(polaris_dyncfg_log_t)
gen_require(
    attribute polaris_domain;
    )

tfiletrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan.log")
tfiletrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan_runtime.log")
tfiles_tmp_filetrans(polaris_domain, polaris_dyncfg_log_t, file, "cyan.lock")
tmanage_files_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t)

tpolaris_dyncfg_tmp_read(polaris_domain)

# on utah need to get model info
toptional_policy(
    polaris_dash_dev_use(polaris_dyncfg_t)
    )

# access to /dev/dash_fpga device on fugazi platform
tifdef(fugazi_platform',
    polaris_dash_dev_mcp_use(polaris_dyncfg_t)
    )

# allow search and read under /tmp/boot directory
tpolaris_boot_tmp_read(polaris_dyncfg_t)

tlogging_send_syslog_msg(polaris_dyncfg_t)

# dyncfg needs access to idprom. Idprom is accessed differently depending on
# platform

# on utah idprom is in quack chip: hw_esg_read_midplane_idprom
# on platforms with idprom in quack chip need access to
# quack device as part of hw_esg_read_midplane_idprom call.
tifdef(crankshaft_family',
    polaris_quack_dev_use(polaris_dyncfg_t)
    )
tifdef(starfleet_platform',
    polaris_quack_dev_use(polaris_dyncfg_t)
    )

# on 1ng idprom is i2c device in sysfs like:
# /sys/devices/pci0000:00/0000:00:1f.3/i2c-0/i2c-1/1-0056/eeprom
# on ultra it is still emulated by i2c driver like:
# /sys/devices/i2c-0/i2c-1/1-0056/eeprom
tdev_rw_sysfs(polaris_dyncfg_t)

# on nyquist and 1ng idprom value retrieved by flashlib and needs dac_override
allow polaris_dyncfg_t self:capability dac_override;
tpolaris_flashlib_read(polaris_dyncfg_t)
# LOOK AT ME on quake even rommon var read operation needs write access
# i.e flashutil -c getvar -N MODEL_NUM does open with O_RDWR
ifdef(`quake_platform',`
polaris_flashlib_write(polaris_dyncfg_t)
')

# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(`
    gen_require(`
        type polaris_wncmgrd_exec_t;
    ')
    read_files_pattern(polaris_dyncfg_t, bin_t, polaris_wncmgrd_exec_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /bootflash/rommon-vars file on vwlc
ifdef(`wlc_family',`
polaris_bootflash_read(polaris_dyncfg_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /boot/vcpu_template file on vwlc
ifdef(`wlc_family',`
polaris_disk_varied_read(polaris_dyncfg_t)
')

# on macallan passport SUP card idprom is in act2 chip.
# hw_passport_read_midplane_idprom invoked from cyan_init
# reads /dev/act2 device.
ifdef(`ngwc_family',`
polaris_act2_dev_use(polaris_dyncfg_t)
')

ifdef(`passport_platform',`
# open /dev/ttyS0 console in hw_passport_read_midplane_idprom, invoked by
# cyaninit
term_use_unallocated_ttys(polaris_dyncfg_t)
')

ifdef(`ngwc_family',`
# during wlc subpackage install cyan_init.sh called from
# C9800-Wireless_startup_script.sh script and output redirected
# into some install_tmp file
ifdef(`ngwc_family',`
polaris_install_tmp_log_write(polaris_dyncfg_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_dynconfig_t)

gen_require(
    type rsync_t;
')

rsync_entry_domtrans(polaris_dynconfig_t, rsync_t)
corenet_tcp_connect_rsync_port(polaris_dynconfig_t)

ifdef('sumatra_platform',
  # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
  # /dev/mem
  polaris_dev_mem_use(polaris_dynconfig_t)
')

# For Cabo, allow for stronger permissions to access env_var
ifdef('cabo_platform',
  polaris_proc_rmonbifo_read(polaris_dynconfig_t)
')

# For Cabo, also allow access to i2c-0
ifdef('cabo_platform',
  polaris_i2c_use(polaris_dynconfig_t)
')

# /dev/i2c-0 access
ifdef('petra_platform',
  polaris_i2c_use(polaris_dynconfig_t)
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.te
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#
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#
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#

policy_module(polarisflashcheck, 1.0);

gen_require(
    type polaris_flashcheck_t;
')

# allow read of /etc/passwd
auth_use_nsswitch(polaris_flashcheck_t)

corecmd_exec_bin(polaris_flashcheck_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_flashcheck_t)

# uses pidof
domain_read_all_domains_state(polaris_flashcheck_t)
dev_read_sysfs(polaris_flashcheck_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_flashcheck_t)

polaris_btrace_data_manage(polaris_flashcheck_t)
polaris_chasfs_manage(polaris_flashcheck_t)
polaris_cpld_read(polaris_flashcheck_t)

polaris_read_debug_conf(polaris_flashcheck_t)
polaris_boot_tmp_read(polaris_flashcheck_t)

logging_send_syslog_msg(polaris_flashcheck_t)

# directly output to /dev/ttyS0
term_use_unallocated_ttys(polaris_flashcheck_t)

polaris_bootflash_read(polaris_flashcheck_t)

allow polaris_flashcheck_t self:capability { sys_resource dac_override };

# pidof needs below
allow polaris_flashcheck_t self:capability sys_ptrace;

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_flashcheck_t)

# access of crashinfo dir for flash_check.sh, it does source of pglobals.sh
# which needs access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_flashcheck_t)

# this is for NFS access mounted in a dir of ncd context
optional_policy(
    polaris_ned_tmp_read(polaris_flashcheck_t)
)

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#

### <summary>Polaris caf Policy Rules.</summary>

### <summary>
##      Read /bootflash/iox/ files or harddisk IOX files
### </summary>
### <param name="domain">
##      Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_iox_files_read',`
    gen_require(`
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    `)
    read_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    allow $1 polaris_iox_files_t:file map;
`)

### <summary>
##      Manage /bootflash/iox/ files or harddisk IOX files
### </summary>
### <param name="domain">
##      Domain allowed access.
### </summary>
### </param>
### <rolebase/>
interface('polaris_iox_files_manage',
    gen_require(
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    )
)

manage_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
manage_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
manage_lnk_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
allow $1 polaris_iox_files_t:file map;

interface('polaris_iox_dir_list',
    gen_require(
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type httpd_var_run_t;
        type polaris_caf_var_run_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    )
)

list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, httpd_var_run_t)
list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_caf_var_run_t)
## <summary>
##      Search /bootflash/iox/ dir or harddisk IOX
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(’polaris_iox_dir_search’,
    gen_require(
        type polaris_iox_files_t;
        type polaris_iox_shared_files_t;
    )
)
search_dirs_pattern($1, polaris_iox_files_t, polaris_iox_files_t)
)

## <summary>
##      Read files like /guestshell/guestshell_set_netns.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(’polaris_guestshell_files_read’,
    gen_require(
        type polaris_guestshell_t;
        type polaris_iox_shared_files_t;
    )
)
read_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
read_lnk_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
)

## <summary>
##      Execute files with polaris_guestshell_exec_t type
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_guestshell_exec_files_exec',
    gen_require('type polaris_guestshell_exec_t;
    ')
    exec_files_pattern($1, polaris_guestshell_exec_t, polaris_guestshell_exec_t)
')

interface('polaris_guestshell_var_run_files_manage',
    gen_require('type polaris_guestshell_var_run_t;
    type var_run_t;
    ')
    manage_files_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
    manage_dirs_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
')

interface('polaris_caf_tmp_files_read',
    gen_require('type polaris_caf_tmp_files_t;
    ')
    read_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
read_link_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
list_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
')

######################################
## <summary>
##      Manage CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_tmp_files_manage',
  gen_require(
    type polaris_caf_tmp_files_t;
  ')

  manage_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
  manage_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
')

######################################
## <summary>
##      Getattr CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_tmp_files_getattr',
  gen_require(
    type polaris_caf_tmp_files_t;
  ')

  getattr_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
')

######################################
## <summary>
##      Read CAF files. Typically at /opt/cisco/caf/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_files_read',
    gen_require(
        type polaris_caf_files_t;
    )
)
read_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
read_lnk_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
list_dirs_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
)

##########################################################################
## <summary>
## Manage ../guestshell/rootfs_mnt/cisco/cisco_cli/
## This files are used to communicate between guestshell container
## iosd, and shell_exec.sh
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_caf_var_run_files_manage',
    optional_policy(
        gen_require(
            type polaris_caf_var_run_t;
        )
        manage_files_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
        manage_dirs_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
    )
)

##########################################################################
## <summary>
## Read /etc/guestshell_rsa_key file
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_guestshell_key_read',
    gen_require("
type etc_t;
    type polaris_guestshell_ssh_key_t;
)

read_files_pattern($1, etc_t, polaris_guestshell_ssh_key_t)
'
)

########################################################################################################
## <summary>
##      Manage ../local/local1/core_dir/ 
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_caf_local_core_files_manage',`
  optional_policy(`
    gen_require(`
      type polaris_caf_core_files_t;
    `)

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
'
')

########################################################################################################
## <summary>
##      Manage /mnt/sd3/iox_alt_hdd.dsk and 
##      /mnt/sd3/iox_alt_hdd_mount_dir 
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_iox_alt_hdd_manage',`
  optional_policy(`
    gen_require(`
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type polaris_iox_alt_hdd_files_t;
    `)
manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)

manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)

### <summary>
### Getattr alternate harddisk files
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>

interface(`polaris_iox_alt_hdd_getattr',`
gen_require(`
type polaris_iox_alt_hdd_files_t;
`)
allow $1 polaris_iox_alt_hdd_files_t:filesystem getattr;
`

### <summary>
### Manage tty device link files. Typically at /dev/
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>

interface(`polaris_caf_tty_lnk_manage',`
gen_require(`
type polaris_caf_tty_file_t;
`)
create_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
read_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
delete_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
`

### <summary>
### Manage tty device chr files.
### </summary>
interface('polaris_caf_chr_file_read',
    gen_require(
        type devpts_t;
    ')

    setattr_chr_files_pattern($1, devpts_t, devpts_t)
    read_chr_files_pattern($1, devpts_t, devpts_t)
')

interface('polaris_caf_domtrans',
    gen_require(
        type polaris_caf_t, polaris_caf_exec_t;
    ')

domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
')

interface('polaris_caf_proc_signal_perms',
    gen_require(
        type polaris_caf_t;
    ')

    domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
')
allow $1 polaris_caf_t:process sigkill;

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allow $1 polaris_caf_t:process sigkill;

#######################################
## <summary>
##      Write/read /tmp/ioxss_up file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ioxss_rp_tmp_manage',
         gen_require(`
         type polaris_ioxss_rp_tmp_t;
         `)
         manage_files_pattern($1,{polaris_ioxss_rp_tmp_t }, polaris_ioxss_rp_tmp_t)
   `)

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#

/usr/cpp/bin/cpp_cp_svr -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/binos/conf/geo_ipv4_db -- gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.fc
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#
# March 2017, Victor Kamensky
#
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#

# polarisnifmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.fc
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#
# November 2017, Victor Kamensky
#
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#

policy_module(polarisgnmib, 1.0);

gen_require(''
    type polaris_gnmib_t;
')

polaris_btrace_data_manage(polaris_gnmib_t)
polaris_crft_data_manage(polaris_gnmib_t)
polaris_chasfs_manage(polaris_gnmib_t)
polaris_tdlresolve_read(polaris_gnmib_t)
polaris_tidldb_list_dirs(polaris_gnmib_t)
polaris_cpld_read(polaris_gnmib_t)
polaris_lua_read(polaris_gnmib_t)
polaris_flashlib_read(polaris_gnmib_t)
polaris_db_tdl_db_dir_use(polaris_gnmib_t)

optional_policy('  
# deals with /dev/shm/confd setup (schema and pid)  
polaris_conf_shm_setup(polaris_gnmib_t)  
# and allow read shared schema  
polaris_conf_shared_schema_read(polaris_gnmib_t)  
# from evconfd_dynamic_load  
polaris_conf_shared_schema_watch(polaris_gnmib_t)  
# read /proc/confd_pid/exe file  
polaris_conf_read(polaris_gnmib_t)  
')

allow polaris_gnmib_t self:capability dac_override;

logging_send_syslog_msg(polaris_gnmib_t)

# create ndbutil directory under /var/lock  
polaris_conf_ndbutil_create(polaris_gnmib_t)

polaris_ndbutil_lock_template(polaris_gnmib_t, gnmib, ".l.schema_use.gnmib")

# grpc library through sysconf accesses /sys/devices/system/cpu  
# to get number of CPUs  
dev_read_sysfs(polaris_gnmib_t)

# gnmib uses multiple (configurable) tcp ports for secure and insecure mode  
corenet_tcp_bind_generic_port(polaris_gnmib_t)  
allow polaris_gnmib_t self:tcp_socket { shutdown };  
corenet_tcp_connect_all_ports(polaris_gnmib_t)

# iosp_token_read_from_file reads /tmp/rp/.iosp_gnmib  
polaris_gnmib_token_read(polaris_gnmib_t)

# gnmib creates /var/tmp/gnmib.pid  
type polaris_gnmib_var_t;  
files_tmp_file(polaris_gnmib_var_t);  
files_tmp_filetrans(polaris_gnmib_t, polaris_gnmib_var_t, file, "gnmib.pid");  
manage_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)  
manage_dirs_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)  
manage_lnk_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)

# read access to /dev/random  
dev_read_rand(polaris_gnmib_t)

ekernell_read_net_sysctls(polaris_gnmib_t)
type polaris_gnmib_gnoi_images_t;
files_type(polaris_gnmib_gnoi_images_t);
polaris_bootflash_filetrans(polaris_gnmib_t, polaris_gnmib_gnoi_images_t, file,);
manage_files_pattern(polaris_gnmib_t, polaris_disk_bootflash_t, polaris_gnmib_gnoi_images_t)

# need to execute install engine scripts
polaris_install_engine_domtrans(polaris_gnmib_t)

# need access to shell to execute install scripts
corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

# install script needs rmonbifo
polaris_rmonbifo_tmp_read(polaris_gnmib_t)

# not sure why this is needed
auth_map_passwd(polaris_gnmib_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_gnmib_t)
polaris_tmp_tlddb_persist_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

# needed to fstat and check space when transferring image for os.proto install rpc
fs_getattr_xattr_fs(polaris_gnmib_t)

# needed by gnmib ui because uipeer heartbeat timer accesses TDL epoch files
polaris_issu_tmp_files_read(polaris_gnmib_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.te
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#
# October 2019, Patrick O'Halloran
#
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#
/usr/bin/os/conf/mcp_crft_request.sh -- gen_context(system_u:object_r:polaris_crft_request_exec_t,s0)

#NGWC - nyquist, edison, bigbang
/mnt/sd3/user/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
#NGWC - macallan, starfleet
/flsh1/user/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flsh1/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flsh1/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#MCP, QWLC
/vol/harddisk/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#VXE, WLC, CRANKSHAFT, MCP
/bootflash/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#CRANKSHAFT - blackheart, sparrow
/flsh1/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flsh1/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flsh1/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#PETRA - petra
# USER is a reserved selinux keyword - escape it like this
/flsh10/USE[R]/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flsh10/USE[R]/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flsh10/USE[R]/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.fc
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#
# March 2017, Victor Kamensky
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#

# polariscmm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.fc
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#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris install Policy Rules.</summary>

########################################
## <summary>
##	Read polaris_sw_data_t, effectively path to read polaris
## base image packages
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_sw_data_read',`
gen_require(`
type polaris_sw_data_t;

    type tmp_t;
`
')
read_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
read_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
list_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
`)

########################################
## <summary>
##	Map polaris_sw_data_t, effectively path to map polaris
## base image packages
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_sw_data_map',`
gen_require(`
type polaris_sw_data_t;
`
')
allow $1 polaris_sw_data_t:file map;
`)

########################################
## <summary>
##	Manage polaris_sw_data_t, effectively path to set up polaris
## base image packages house holding
## </summary>
## <summary>
## Domain allowed access.
## </summary>
##
#
interface('polaris_sw_data_manage',
gen_require(''
type polaris_sw_data_t;
    type tmp_t;
    ')
    manage_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    manage_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    allow $1 polaris_sw_data_t:dir mounton;
')

########################################
## <summary>
## Read polaris_patch_data_t, effectively path to read polaris
## smu patch or optional packages
## </summary>
##
## <param name="domain">
## Domain allowed access.
## </summary>
##
#
interface('polaris_patch_data_read',
'gen_require(''
type polaris_patch_data_t;
    type tmp_t;
    ')
    read_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    read_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
    list_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
')

########################################
## <summary>
## Manage polaris_patch_data_t, effectively path to set up polaris
## smu patch or optional packages house holding
## </summary>
##
## <param name="domain">
## Domain allowed access.
## </summary>
interface('polaris_patch_data_manage',
    gen_require(''
        type polaris_patch_data_t;
        type tmp_t;
    ')
)
manage_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
manage_link_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
manage_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
)

interface('polaris_patch_data_watch',
    gen_require(''
        type polaris_patch_data_t;
    ')
    allow $1 polaris_patch_data_t:dir watch;
)

interface('polaris_install_show_tmp_write',
    gen_require(''
        type polaris_install_show_tmp_t;
        type tmp_t;
    ')
    write_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
)
<<<summary>>>
Read tmp files created by install_show.sh
</summary>

<param name="domain">
Domain allowed to transition.
</param>

interface('polaris_install_show_tmp_read', 
  gen_require(' 
    type polaris_install_show_tmp_t; 
    type tmp_t; 
    ') 
  read_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t) 
')

<<<summary>>>
Manage tmp installer files and directories
</summary>

<param name="domain">
Domain allowed access.
</param>

interface('polaris_install_show_tmp_manage', 
  gen_require(' 
    type polaris_install_show_tmp_t; 
    ') 
  manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t) 
  manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t) 
  manage_lnk_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t) 
')

<<<summary>>>
Manage /bootflash/.issu_loc_lock files
TODO: provfunc.sh and hman have reference to /bootflash/SISSU_LOCAL_LOCK_FILE.
For now, I am keeping manage_dirs_pattern for polaris_disk_bootflash_t.
Need to re-visit so that callers to this macro do not have write-permission to all of bootflash.
</summary>
<param name="domain">
</param>
## Domain allowed access.

```cpp
def main():
    # interface('polaris_issu_files_manage',
    #     gen_require(
    #         type polaris_issu_files_t;
    #         type polaris_disk_bootflash_t;
    #     )

    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t, file, ".issu_loc_lock")
    manage_files_pattern($1, polaris_issu_files_t, polaris_issu_files_t)
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t)
)

#interface('polaris_issu_tmp_files_manage',
#    gen_require(
#        type polaris_issu_tmp_files_t;
#        type tmp_t;
#    )

    manage_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    manage_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
)

#interface('polaris_disk_install_manage',
```
gen_require('type polaris_disk_install_t;')
manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
allow $1 polaris_disk_install_t:dir watch;
')

###############################################################################
## <summary>
## Read any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_install_read';
    gen_require('type polaris_disk_install_t;')
    search_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    read_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    allow $1 polaris_disk_install_t:dir {watch read};
')

###############################################################################
## <summary>
## Get attributes of any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_install_fs_getattr';
    gen_require('type polaris_disk_install_t;')
    allow $1 polaris_disk_install_t:filesystem getattr;
')

###############################################################################
## <summary>
## Manage /tmp/installer files and directories

### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

#
#
interface('polaris_install_tmp_manage',
gen_require('`
type polaris_install_tmp_t;
`')
manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
`')

######################################
## Read /tmp/installer files and directories
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_install_tmp_read',
gen_require('`
type polaris_install_tmp_t;
`')
list_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
read_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
read_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
allow $1 polaris_install_tmp_t:dir watch;
allow $1 polaris_install_tmp_t:file map;
`')

#######################################
## Execute install related scripts in its own domain.
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_engine_domtrans',
    gen_require('`
        type polaris_install_engine_t, polaris_install_engine_exec_t;
    `')
)

domtrans_pattern($1, polaris_install_engine_exec_t, polaris_install_engine_t)
')

########################################
## <summary>
##     Write into tmp log files created by install engine
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed to transition.
##     </summary>
## </param>
#
interface('polaris_install_tmp_log_write',
    gen_require('`
        type polaris_install_tmp_log_t;
    `')
    write_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
')

########################################
## <summary>
##      Execute install selinux related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_install.selinux_domtrans',
    gen_require('`
        type polaris_install.selinux_t, polaris_install.selinux_exec_t;
    `')
)

domtrans_pattern($1, polaris_install.selinux_exec_t, polaris_install.selinux_t)
')

########################################
## <summary>
##      Execute wireless install related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
# interface('polaris_install_wireless_domtrans',
    gen_require(
        type polaris_install_wireless_t, polaris_install_wireless_exec_t;
    ')
)

domtrans_pattern($1, polaris_install_wireless_exec_t, polaris_install_wireless_t)
')


## <summary>
##      Execute install show scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
# interface('polaris_install_show_domtrans',
    gen_require(
        type polaris_install_show_t, polaris_install_show_exec_t;
    ')
)

domtrans_pattern($1, polaris_install_show_exec_t, polaris_install_show_t)
')


## <summary>
##      Allow the specified domain to manage KGV data files
## I.e under /tmp/pkg_cs_debug created by function verify_pkg
## common scripts file.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_pkg_cs_debug_manage',
    gen_require(
        type polaris_pkg_cs_debug_t;
    ')
)
files_tmp_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
fs_tmpfs_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
manage_dirs_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
manage_files_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)

####################################
## <summary>
##      Manage /file which is generated on "flock -u file /tmp/sysctrl_i2c.lck"
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_i2c_lock_file_manage',`
   gen_require(
      type polaris_i2c_lock_file_t;
   )
   manage_dirs_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
   manage_files_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
   )

####################################
## <summary>
##      write  /tmp/installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_install_tmp_write',`
   gen_require(
      type polaris_install_tmp_t;
   )
   write_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
   allow $1 polaris_install_tmp_t:dir watch;
   )

####################################
## <summary>
##      Read/Write /.images files and directories
## </summary>
## <param name="domain">
##      <summary>
## Domain allowed access.

```c
interface('polaris_install_images_manage',
    gen_require('type polaris_install_images_t;
')
    manage_dirs_pattern($1, polaris_install_images_t, polaris_install_images_t)
    manage_files_pattern($1, polaris_install_images_t, polaris_install_images_t)
')
```

### Read ISSU tmp files

```c
interface('polaris_issu_tmp_files_read',
    gen_require('type polaris_issu_tmp_files_t;
    type tmp_t;
')
    list_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    allow $1 polaris_issu_tmp_files_t:file map;
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.if
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# August 2017, Shawn Lu

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```c
policy_module(polarisodm, 1.0);
```
type polaris_odm_t;
')

polaris_btrace_data_manage(polaris_odm_t)
polaris_crft_data_manage(polaris_odm_t)
polaris_chasfs_manage(polaris_odm_t)
polaris_tdlresolve_read(polaris_odm_t)
polaris_tdlldb_list_dirs(polaris_odm_t)
polaris_cpld_read(polaris_odm_t)
polaris_lua_read(polaris_odm_t)
polaris_flashlib_read(polaris_odm_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_t)
polaris_db_tdlldb_dir_use(polaris_odm_t)

# allow setrlimit
allow polaris_odm_t self:capability sys_resource;
allow polaris_odm_t self:process setrlimit;
allow polaris_odm_t self:capability dac_override;

# odm_svr2clnt_data uses subdirectory for channels needs explicit rule
# to allow it. ODM elastic value is 2 now, add more if need in the
# future.
gen_require('
    type polaris_odm_server2client_data_mqipc_t;
')
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b1)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b0)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data)
logging_send_syslog_msg(polaris_odm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisreflector Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.if
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#

policy_module(polariscontainer, 1.0);

# polaris_default_container_t type for not labeled container
polaris_container_domain_template(default)

# polaris_utd_container_t type for snort container
polaris_container_domain_template(utd)
polaris_utd_container(polaris_utd_container_t)

# polaris_utdl_container_t type for snort container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(utdl)
polaris_utd_container(polaris_utdl_container_t)

# manage /tmp/xml/{Utd*} dirs
polaris_vman_log_files_manage(polaris_utdl_container_t)
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_utdl_container_t)
)

allow polaris_utdl_container_t ramfs_t:file map;

polaris_iox_container_watch(polaris_utdl_container_t)

# work with memif
optional_policy(
    polaris_qfp_dgram_send(polaris_utdl_container_t)
)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_utdl_container_t)
)
optional_policy(
    polaris_htx_use_client_socket(polaris_utdl_container_t)
)

# allow container to work with /tmp/binos-IOX
optional_policy(
polaris_qfp_memif_manage(polaris_utdl_container_t)
)

# snort works with /dev/shm/SPO_DAQ_MMAP_OBJ_
fs_exec_tmpfs_files(polaris_utdl_container_t)

# allow container to work with /tmp/xml/* files
optional_policy(
    polaris_vman_tmp_manage(polaris_utdl_container_t)
)

gen_require('  
    type container_file_t;
')
polaris_disk_type(container_file_t)

# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of ramfs on /tmp/snortlogs
fs_mount_ramfs(polaris_utdl_container_t)
# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_utdl_container_t)
fs_manage_tmpfs_dirs(polaris_utdl_container_t)
fs_manage_tmpfs_files(polaris_utdl_container_t)
fs_manage_tmpfs_symlinks(polaris_utdl_container_t)

# Allow ramfs access to utd container
fs_manage_ramfs_dirs(polaris_utdl_container_t)
fs_manage_ramfs_files(polaris_utdl_container_t)

# Allow link file access from cron to crond
kernel_read_state(polaris_utdl_container_t)

# Allow Snort
allow polaris_utdl_container_t self:packet_socket map;

# polaris_iox_container_t type for generic IOx containers
polaris_container_domain_template(iox)

fs_mount_tmpfs(polaris_iox_container_t)
fs_manage_tmpfs_dirs(polaris_iox_container_t)
fs_manage_tmpfs_files(polaris_iox_container_t)
fs_manage_tmpfs_symlinks(polaris_iox_container_t)
fs_manage_tmpfs_sockets(polaris_iox_container_t)
# fs_manage_tmpfs_fifo_files is missing
gen_require('  
    type tmpfs_t;
')
manage_fifo_files_pattern(polaris_iox_container_t, tmpfs_t, tmpfs_t)
fs_mounton_tmpfs(polaris_iox_container_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_iox_container_t tmpfs_t:file map;

# container reads ip netns identity <pid>
fs_read_nsfs_files(polaris_iox_container_t)

# container systemd does remount of some file systems
gen_require('type svirt_sandbox_file_t;
')
allow polaris_iox_container_t svirt_sandbox_file_t:filesystem { remount };
polaris_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polaris_caf_local_core_files_manage(polaris_iox_container_t)

allow polaris_iox_container_t self:cap_users { chown dac_override dac_read_search fsetid setgid setpcap setuid sys_admin sys_boot };

gen_require('type devpts_t;
  type polaris_iox_container_t;
  type container_runtime_t;
  class fifo_file { getattr ioctl read write };
  class chr_file { getattr ioctl open read setattr write };
')

#============= polaris_iox_container_t ==============
allow polaris_iox_container_t container_runtime_t:fifo_file { getattr setattr ioctl open read write };
allow polaris_iox_container_t devpts_t:chr_file { getattr ioctl open read setattr write };

# Normally lipc denials are addressed by code that is generated from TDL.
# I.e if process need to access lipc service it just need to be listed as 'client' of proper TDL service.
# If in this case iox_container process does not have its own TDL proc_def entry,
# therefore we use autogenerated polaris_lipc_iostd_portal_app_write macro/interface.
# Marking this policy optional, so that if platform TDL does not have proper service defined
# then polaris_lipc_iostd_portal_app_write won't be generated, but container policy still would compile.
optional_policy(
  gen_require('type polaris_iosd_t;
')
  polaris_lipc_iostd_portal_app_write(polaris_iox_container_t, polaris_iosd_t)
)
docker_exec_lib(polaris_iox_container_t)
fs_exec_hugetlbfs_files(polaris_iox_container_t)
kernel_read_ring_buffer(polaris_iox_container_t)
dev_read_sysfs(polaris_iox_container_t)
polaris_iox_container_watch(polaris_iox_container_t)

# polaris_sdavc_container_t type for SDAVC container, that has
# legacy configuration, need more permissions

polaris_container_domain_template(sdavc)
polaris_utdl_container(polaris_sdavc_container_t)

# manage /tmp/xml/{SDAVC*} dirs
polaris_vman_log_files_manage(polaris_sdavc_container_t)

# legacy SDAVC containder in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_sdavc_container_t)

# container systemd mounton tmpfs_t & tmpf_st management
fs_mounton_tmpfs(polaris_sdavc_container_t)
fs_manage_tmpfs_dirs(polaris_sdavc_container_t)
fs_manage_tmpfs_files(polaris_sdavc_container_t)
fs_manage_tmpfs_sockets(polaris_sdavc_container_t)
manage_fifo_files_pattern(polaris_sdavc_container_t, tmpfs_t, tmpfs_t)

# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_sdavc_container_t tmpfs_t:file map;
# Add watch on tmpfs_t/container_t dir/files
polaris_iox_container_watch(polaris_sdavc_container_t)

# map/mount/write hugtlbfs files
gen_require(''
    type hugetlbfs_t;
')
allow polaris_sdavc_container_t hugetlbfs_t:filesystem mount;
allow polaris_sdavc_container_t hugetlbfs_t:file map;
fs_manage_hugetlbfs_dirs(polaris_sdavc_container_t)

# Allow syslog_mod operation on kernel_t
kernel_clear_ring_buffer(polaris_sdavc_container_t)

# Allow tcpdump
allow polaris_sdavc_container_t self:packet_socket map;
allow polaris_utdl_container_t self:packet_socket map;

# add in the docker files labels to polaris_disk_type
gen_require(''
    type container_var_lib_t;"
type container_share_t;
  type container_log_t;
)
polaris_disk_type(container_var_lib_t)
polaris_disk_type(container_share_t)
polaris_disk_type(container_log_t)

# polaris_waas_container_t type for WAAS KVM
polaris_kvm_domain_template(waas)

# Allow rw block files access to /dev/lvm RAID
storage_dontaudit_write_fixed_disk(polaris_waas_container_t)
storage_dontaudit_read_fixed_disk(polaris_waas_container_t)
# Manage hugetlbfs files/dirs
fsmanage_hugetlbs_dirs(polaris_waas_container_t)
manage_files_pattern(polaris_waas_container_t, hugetlbs_t, hugetlbs_t)
fs_exec_hugetlbs_files(polaris_waas_container_t)

# Allow access of /dev/kvm device
devrw_kvm(polaris_waas_container_t)

# Allow domain to search/write to virlog_t
polaris_vman_virtlog_allow(polaris_waas_container_t)

# Allow for guest-share
gen_require(
  type polaris_iox_shared_files_t;
)
manage_files_pattern(polaris_iox_container_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.te
No license file was found, but licenses were detected in source scan.

### <summary>Polaris polarispvp Policy Rules.</summary>

####################################################
### <summary>
### Execute a domain transition to run pvp.
### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_pvp_domtrans',
    gen_require(
        type polaris_pvp_t, polaris_pvp_exec_t;
    ')

domtrans_pattern($1, polaris_pvp_exec_t, polaris_pvp_t)
')

########################################
## <summary>
##      Manage pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pvp_manage_tmp_files',
    gen_require(
        type polaris_pvp_tmp_t;
    ')

manage_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_dirs_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Manage pvp process_state files and directories in /tmp/[rp|fp|cc]/pvp/process_state.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pvp_manage_process_state_files',
    gen_require(
        type polaris_process_state_t;
    ')

manage_files_pattern($1, polaris_process_state_t, polaris_process_state_t)
'

########################################
## <summary>
##      Getattr dirs pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pvp_getattrs_tmp_dirs',`
gen_require(`
type tmp_t;
type polaris_pvp_tmp_t;
')

getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Read from pvp stdin. Should be granted to scripts spawned
## from pvp with domain transition. pvp stdin (0) points to fifo
## file like /tmp/rp/pvp/work/inot_fifo
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pvp_stdin_read',`
gen_require(`
type polaris_pvp_tmp_t;
')

read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Read pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(\texttt{polaris\_pvp\_read\_tmp\_files}',
      \texttt{gen\_require(}
      type \texttt{tmp\_t};
      type \texttt{polaris\_pvp\_tmp\_t};
      )
      
      \texttt{rw\_files\_pattern($1, \{ tmp\_t \texttt{polaris\_pvp\_tmp\_t} \}, \texttt{polaris\_pvp\_tmp\_t})}
      )

#########################################################
## <summary>
##      Read pvp SAI files under
## /tmp/[rp|fp|cc/*]/pvp/sai\_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(\texttt{polaris\_pvp\_read\_sai\_files}',
      \texttt{gen\_require(}
      type \texttt{polaris\_pvp\_sai\_t};
      )
      \texttt{read\_files\_pattern($1, polaris\_pvp\_sai\_t, polaris\_pvp\_sai\_t)\n      list\_dirs\_pattern($1, polaris\_pvp\_sai\_t, polaris\_pvp\_sai\_t)}
      allow $1 polaris\_pvp\_sai\_t\texttt{dir watch;}
      )

#########################################################
## <summary>
##      Delete pvp SAI dirs and files under
## /tmp/[rp|fp|cc/*]/pvp/sai\_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(\texttt{polaris\_pvp\_delete\_sai\_files}',
      \texttt{gen\_require(}
      )
type polaris_pvp_sai_t;
')
allow $1 polaris_pvp_sai_t:dir { remove_name rmdir write };
allow $1 polaris_pvp_sai_t:file unlink;
')

########################################################################
## <summary>
##    Watch pvp process_state directories
## </summary>
## <param name="domain">
##    Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_process_state_watch',
  gen_require(
    type polaris_process_state_t;
  )
  allow $1 polaris_process_state_t:dir watch;
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polarisrmonbifo, 1.0);

########################################################################
# Polaris Rmonbifo Driver policy
########################################################################

# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismonbifo.te
No license file was found, but licenses were detected in source scan.

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#
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#

/bootflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.fc
No license file was found, but licenses were detected in source scan.

#
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#

# polarisodm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.fc
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#
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#

/usr/bin/os/conf/auto_upgrade_client.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_trigger.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_client_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)

/tmp/etc/installer   gen_context(system_u:object_r:polaris_autoupgrade_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

# polariswstatsd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.fc

No license file was found, but licenses were detected in source scan.

#
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#
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#

/usr/binos/conf/bexecute.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
# still exists for backward compatibility
/tmp/etc/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/bexec.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/brelay -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/ioucon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runin.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runin_exec_proc.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/in.telnetd.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay_console.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)

# mcp_chvrf.sh used by some systemd units to switch vrf (ip namespace)
# of xinetd that drives brelay service
/usr/binos/conf/mcp_chvrf.sh -- gen_context(system_u:object_r:polaris_chvrf_exec_t,s0)

# used by "request platform software system shell" CLI
/usr/binos/conf/mcp_record_shell.sh -- gen_context(system_u:object_r:polaris_platform_shell_exec_t,s0)
/usr/binos/conf/mcp_shell.sh -- gen_context(system_u:object_r:polaris_shell_exec_t,s0)

# used by "sh pla so process memory r0 name iosd maps" CLI
/usr/binos/conf/mcp_process_maps.sh -- gen_context(system_u:object_r:polaris_process_maps_exec_t,s0)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

# used by "req platform software console attach switch standby R0" CLI
/usr/bin/os/conf/mcp_console_attach.sh -- gen_context(system_u:object_r:polaris_mcp_console_attach_exec_t,s0)
/usr/bin/os/bin/ioucon -- gen_context(system_u:object_r:polaris_ioucon_exec_t,s0)

# ngio_module_session.sh used by "hw-module session" CLI
/usr/bin/os/conf/ngio_module_session.sh -- gen_context(system_u:object_r:polaris_ngio_module_session_exec_t,s0)

# used by "upgrade rom-monitor capsule primary switch 1 R0" CLI
/usr/bin/os/conf/cat9k-primary-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)
/usr/bin/os/conf/cat9k-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)
/mnt/sd3/user/capsule-upgrade.log -- gen_context(system_u:object_r:polaris_capsule_upgrade_log_t,s0)
/usr/bin/os/conf/mcp_dmesg_service.sh -- gen_context(system_u:object_r:polaris_mcp_dmesg_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#
## <summary>Polaris wncd Policy Rules.</summary>

#######################################
## <summary>
##     Read files under /mnt/images/...these are related to AccessPoint images
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_wlc_ap_images_read',
   gen_require(`
      type polaris_wlc_ap_images_t;
   )
read_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
read_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
list_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
allow $1 polaris_wlc_ap_images_t:file map;
### <summary>
### Manage files under /mnt/images/...these are related to AccessPoint images
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_wlc_ap_images_manage',
    gen_require(
        type polaris_wlc_ap_images_t;
        type mnt_t;
    )
)

manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)

# transition when /mnt/images is created
filetrans_pattern($1, mnt_t, polaris_wlc_ap_images_t, dir, "images")
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswned.if
No license file was found, but licenses were detected in source scan.

#
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#
### <summary>Polaris esg_tam_cfg Policy Rules.</summary>
interface('polaris_tam_getattrs_tmp_dirs',
    gen_require(
        type tmp_t;
        type polaris_tam_tmp_t;
    )
)

getattr_dirs_pattern($1, tmp_t, polaris_tam_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.if
No license file was found, but licenses were detected in source scan.

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#
### <summary>Polaris MQIPC Policy Rules.</summary>

########################################################################################################################
# Polaris mqipc (infra/mqipc)
########################################################################################################################

########################################################################################################################
### <summary>
###   Make specified domain as one of mqipc types.
### </summary>
### <param name="domain">
###   <summary>
###   The domain serving as polaris_mqipc type
### </summary>
### </param>
#
interface('polaris_mqipc_type',
    gen_require(
        attribute polaris_mqipc;
    )
    type attribute $1 polaris_mqipc;
    files_type($1)
)

########################################################################################################################
### <summary>
###   Manage mqipc shared memory file in /dev/shm directory
### </summary>
```c
interface("polaris_mqipc_create_name",
   gen_require(
      type tmpfs_t;
      type tmp_t;
   )
 manages_files_pattern($1, tmpfs_t, $2)
 allow $1 $2:file map;
 type_transition $1 tmpfs_t : file $2 "mq.-$3";
 manage_fifo_files_pattern($1, tmp_t, $2)
 type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
 type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
 fs_getattr_tmpfs($1)
 )


###############################################################################

## Manage mqipc shared memory file in /dev/shm/dir directory
## where dir is also derived from object parameter used as stem. It
## should be used only in cases where mqipc server operates with
## channel under subdirectory. TDL autogeneration does not pick up
## this so interface call should be added explicitly.
```
manage_files_pattern($1, { tmpfs_t $2 }, $2)
allow $1 $2:file map:
manage_dirs_pattern($1, tmpfs_t, $2)
type_transition $1 tmpfs_t : { file dir } $2 "mq.-$3";
manage_fifo_files_pattern($1, { tmp_t $2 }, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)
')

interface('polaris_mqipc_create_name_dir',
gen_require(''
type tmpfs_t;
    type tmp_t:
')
manage_files_pattern($1, { tmpfs_t $2 }, $2)
allow $1 $2:file map:
manage_dirs_pattern($1, tmpfs_t, $2)
type_transition $1 tmpfs_t : { file dir } $2 "mq.-$3";
manage_fifo_files_pattern($1, { tmp_t $2 }, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)
')

interface('polaris_mqipc_use',
gen_require(''
type tmpfs_t;
')
read_files_pattern($1, { tmpfs_t $2 }, $2)
write_files_pattern($1, { tmpfs_t $2 }, $2)
read_fifo_files_pattern($1, { tmp_t $2 }, $2)
write_fifo_files_pattern($1, { tmp_t $2 }, $2)
fs_getattr_tmpfs($1)
allow $1 $2:file map:
### <summary>Polaris issu_stack Policy Rules.</summary>

# # March 2017, Victor Kamensky
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#

### <summary>Polaris issu_stack Policy Rules.</summary>

#### #<summary>
#### # Manage tmp files created by issu_stack.
#### #</summary>
#### #param name="domain">
#### #<summary>
#### # Domain allowed access.
#### #</summary>
#### #</param>
#### #<rolecap/>
#
# interface('polaris_issu_stack_tmp_manage',
  gen_require(
    type polaris_issu_stack_tmp_t;
  ')
)

manage_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_lnk_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
'

### <summary>Polaris Tmp Boot Policy Rules.</summary>

# # March 2017, Victor Kamensky
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#

### <summary>Polaris Tmp Boot Policy Rules.</summary>
# /tmp/sw/boot policy

## <summary>
## Read /tmp/sw/boot files. Does not cover rmonbifo file under
## /tmp/sw/boot/rmonbifo. For those use polaris_rmonbifo_tmp_read interface
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_boot_tmp_read',
  gen_require(''
    type polaris_boot_tmp_t;
  ')
  read_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
  ')

## <summary>
## Write /tmp/sw/boot files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_boot_tmp_write',
  gen_require(''
    type polaris_boot_tmp_t;
  ')
  write_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
  ')

## <summary>
## Map any polaris_boot_tmp_t file, needed during install.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
interface('polaris_boot_tmp_map',
    gen_require(
        type polaris_boot_tmp_t;
    )
    allow $1 polaris_boot_tmp_t:file map;
)

interface('polaris_boot_tmp_manage',
    gen_require(
        type polaris_boot_tmp_t;
    )
    manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
)

# Create an polaris_boot_tmp_t object in tmpfs_t, tmp_t directories.
#<param name="domain">
#<param name="object">
#<param name="name" optional="true">
#
interface('polaris_boot_tmp_filetrans',
    gen_require(
        type polaris_boot_tmp_t;
        )
    fs_temps_filetrans($1, polaris_boot_tmp_t, $2, $3)
    files_temp_filetrans($1, polaris_boot_tmp_t, $2, $3)
    )

########################################################################
## <summary>
##      Manage partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_rommon_device_manage',
    gen_require(
        type device_t;
        type polaris_rommon_device_t;
        )
    manage_blk_files_pattern($1, device_t, polaris_rommon_device_t)
    manage_chr_files_pattern($1, device_t, polaris_rommon_device_t)
    )

########################################################################
## <summary>
##      Read partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_rommon_device_read',
    gen_require(
        type device_t;
        type polaris_rommon_device_t;
        )
    read_blk_files_pattern($1, device_t, polaris_rommon_device_t)
    read_chr_files_pattern($1, device_t, polaris_rommon_device_t)
    )

########################################################################
## <summary>
## Manage `/bootflash/.prst_sync/reload_info`
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_boot_file_manage`,
  gen_require(`
    type polaris_boot_file_t;
  `)
  manage_files_pattern($1, polaris_boot_file_t, polaris_boot_file_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polariscedgegeman, 1.0);

# why /usr/binos/conf/cedge-tanman.sh is not described in TDL?
polaris_process_domain_template(cedge_tanman)

polaris_boot_tmp_read(polaris_cedge_tanman_t)
polaris_chasfs_read(polaris_cedge_tanman_t)
polaris_cpld_read(polaris_cedge_tanman_t)
polaris_read_debug_conf(polaris_cedge_tanman_t)
polaris_use_btrace_fifo(polaris_cedge_tanman_t)

corecmd_exec_bin(polaris_cedge_tanman_t)
corecmd_exec_shell(polaris_cedge_tanman_t)
auth_use_nsswitch(polaris_cedge_tanman_t)

# /tmp/tan handling

type polaris_cedge_tanman_tmp_t;
files_tmp_file(polaris_cedge_tanman_tmp_t)
gen_require(`
  type tmp_t;
`)}
manage_dirs_pattern(polaris_cedge_tanman_t, tmp_t, polaris_cedge_tanman_tmp_t)
manage_fifo_files_pattern(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
files_tmp_filetrans(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, dir, "Ian")

# calls du -sk /tmp/xml/System
fs_getattr_tmpfs(polaris_cedge_tanman_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cedge_tanman_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cedge_tanman_t)

polaris_btrace_tmppub_read(polaris_cedge_tanman_t)

allow polaris_cedge_tanman_t self:capability sys_resource;

# calls nice
allow polaris_cedge_tanman_t self:process setsched;

# runs inotifywait -mrq --format %f: -e moved_to /bootflash/tracelogs
# and removes files in /bootflash/tracelogs
polaris_btrace_persistent_data_manage(polaris_cedge_tanman_t)

# runs ps -eaf
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_tanman_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_tanman_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_tanman_t)

# watch over /bootflash/tracelogs
polaris_btrace_data_watch(polaris_cedge_tanman_t)

# watches over /tmp for /tmp-booted appearance

gen_require('type tmp_t;
')
allow polaris_cedge_tanman_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.te
No license file was found, but licenses were detected in source scan.

#
# Aug 2020, Sridhar
## <summary>Polaris tlscd process Policy Rules.</summary>

### <summary>
### Allow the specified domain to manage UDS socket files. I.e /tmp/tlscd/
### </summary>

### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_tlscd_uds_manage',
  gen_require(
    type polaris_tlscd_uds_t;
  )
)
manage_sock_files_pattern($1, polaris_tlscd_uds_t, polaris_tlscd_uds_t)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.if

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dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Same as Nyquist
dnl
dnl Nyquist Platform Max Bay Limits
dnl
max_bay_map_set(`rp`, `per_bay`, 0)
max_bay_map_set(`cc`, `per_bay`, 0)
max_bay_map_set(`fp`, `per_bay`, 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp`, `elastic`, BPROC_ODM, 0)
max_elastic_map_set(`cc`, `elastic`, BPROC_ODM, 0)
max_elastic_map_set(`fp`, `elastic`, BPROC_ODM, 0)

max_elastic_map_set(`rp`, `elastic`, BPROC_WNCD, 0)
max_elastic_map_set(`cc`, `elastic`, BPROC_WNCD, 0)
max_elastic_map_set(`fp`, `elastic`, BPROC_WNCD, 0)
No license file was found, but licenses were detected in source scan.

# September 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisunconfined Policy Rules.</summary>
ifdef(`polaris_unconfined',`
    unconfined_domain($1)
')

ifdef(`polaris_unconfined_conditional',`
    polaris_domain_storage_unconfined_type($1)

    tunable_policy(`polaris_unconfined_all',`
        polaris_unconfined_domain($1)
    )
')
#implicitly confined domain being made permissive
permissive $1;
')

########################################
## <summary>
##	Mark iosd domain unconfined, if polaris_iosd_unconfined
## build macro is defined. Or if polaris_iosd_unconfined_conditional
## macro is defined make domain unconfined only if
## polaris_unconfined_iosd SELinux boolean is set on.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_iosd_maybe_unconfined',`
    ifdef(`polaris_iosd_unconfined',`
        unconfined_domain($1)
    )

    ifdef(`polaris_iosd_unconfined_conditional',`
        polaris_domain_storage_unconfined_type($1)

        tunable_policy(`polaris_unconfined_iosd',`
            polaris_unconfined_domain($1)
        )
    )
')

########################################
## <summary>
##	Unconfined access to kernel module resources.
## Like kernel_unconfined but without typeattribute use.
interface('polaris_kernel_unconfined',
gen_require(''
attribute proc_type;
    attribute sysctl_type;
    type kernel_t;
    type unlabeled_t;
    type proc_kcore_t;
    type proc_kmsg_t;
')

    allow $1 { proc_type - proc_kcore_t - proc_kmsg_t } :{ file } ~entrypoint;
    allow $1 { proc_type - proc_kcore_t - proc_kmsg_t }:{ dir lnk_file } *;

    allow $1 sysctl_type:{ file } ~entrypoint;
    allow $1 sysctl_type:{ dir lnk_file } *;

    allow $1 kernel_t:system *;

    allow $1 unlabeled_t:{ dir lnk_file sock_file fifo_file chr_file blk_file } *;
    allow $1 unlabeled_t:file ~entrypoint;
    allow $1 unlabeled_t:filesystem *;
    allow $1 unlabeled_t:association *;
    allow $1 unlabeled_t:packet *;
    allow $1 unlabeled_t:process ~{ ptrace transition dyntransition execmem execstack execheap };

# LOOK AT ME
# kernel_load_module($1)
')

############################################################

## <summary>
## Unconfined access to network objects.
## Like corenet_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## The domain allowed access.
## </param>
#
interface('polaris_corenet_unconfined',

gen_require("
    attribute node_type;
    attribute netif_type;
    attribute packet_type;
    attribute port_type;
  ")

  allow $1 node_type:node *;
  allow $1 netif_type:netif *;
  allow $1 packet_type:packet *;
  allow $1 port_type:dccp_socket { send_msg recv_msg name_connect };
  allow $1 port_type:tcp_socket { send_msg recv_msg name_connect };
  allow $1 port_type:udp_socket { send_msg recv_msg };

  # Bind to any network address.
  allow $1 port_type:{ dccp_socket tcp_socket udp_socket rawip_socket } name_bind;
  allow $1 node_type:{ dccp_socket tcp_socket udp_socket rawip_socket } node_bind;

  ")

########################################
## <summary>
##	Unconfined access to devices.
## Like dev_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_dev_unconfined',`
gen_require(`
    attribute device_node;
    type memory_device_t;
    type mtrr_device_t;
  `)

  allow $1 self:capability sys_rawio;
  allow $1 [ device_node - memory_device_t ] :{ blk_file lnk_file } *;
  allow $1 [ device_node - memory_device_t ] :{ file chr_file } ~{ execmod entrypoint };
  allow $1 mtrr_device_t:file ~{ execmod entrypoint };
  dev_getattr_all($1)

  `)

########################################
## <summary>
## Unconfined access to domains.
## Like domain_unconfined but without typeattribute use.
## </summary>

### <param name="domain">
## Domain allowed access.
### </param>

```
interface('polaris_domain_unconfined',
gen_require(''
    attribute domain;
')

# Use/sendto/connectto sockets created by any domain.
allow $1 domain: { socket_class_set socket key_socket } *

allow $1 domain: system all_system_perms;
# Use descriptors and pipes created by any domain.
allow $1 domain: fd use;
allow $1 domain: fifo_file rw_file_perms;

allow $1 $1: dbus send_msg;

# Act upon any other process.
allow $1 domain: process ~ { ptrace transition dyntransition execmem execstack execcheap setcurrent };
allow $1 domain: process ptrace;

# Create/access any System V IPC objects.
allow $1 domain: { sem msgq shm } *;
allow $1 domain: msg { send receive };

# For /proc/pid
allow $1 domain: dir list_dir_perms;
allow $1 domain: file rw_file_perms;
allow $1 domain: lnk_file { read_link_file_perms ioctl lock };

# act on all domains keys
allow $1 domain: key *;

# pass constraints
# typeattribute $1 can_change_object_identity;
# typeattribute $1 set_curr_context;
# typeattribute $1 process_uncond_exempt;

# mcs_process_set_categories($1)
```
# userdom_filetrans_home_content($1)
')

#################################################################
## <summary>
## Unconfined access to files.
## Like files_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_files_unconfined',
  gen_require(`
    attribute file_type;
    type shadow_t;
  ')
)

# Create/access any file in a labeled filesystem;
allow $1 { file_type - shadow_t }:{ file chr_file } ~{ execmod entrypoint relabelto };
allow $1 file_type:{ dir lnk_file sock_file fifo_file blk_file } *;
allow $1 file_type:service *;

# Mount/unmount any filesystem with the context= option.
allow $1 file_type:filesystem all_filesystem_perms;
')

#################################################################
## <summary>
## Unconfined access to filesystems
## Like fs_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_fs_unconfined',
  gen_require(`
    attribute filesystem_type;
  ')
)

allow $1 filesystem_type:filesystem all_filesystem_perms;
# Create/access other files. fs_type is to pick up various
# pseudo filesystem types that are applied to both the filesystem
# and its files.
allow $1 filesystem_type:{ file } ~entrypoint;
allow $1 filesystem_type:{ dir lnk_file sock_file fifo_file chr_file blk_file } *
;

########################################
## <summary>
##	Unconfined access to the SELinux kernel security server.
## Like selinux_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface(`polaris_selinux_unconfined',`

gen_require(`
    attribute boolean_type;
    type security_t;
    type secure_mode_policyload_t;
    )

# use SELinuxfs
allow $1 security_t:dir list_dir_perms;
allow $1 security_t:file rw_file_perms;
allow $1 boolean_type:file read_file_perms;
allow $1 { boolean_type -secure_mode_policyload_t }:file write_file_perms;

# Access the security API.
allow $1 security_t:security ~{ load_policy setenforce setbool setsecparam };

ifdef(`distro_rhel4',`
    # needed for systems without audit support
    auditallow $1 security_t:security setbool;
    )

#selinux_set_all_booleans($1)
#selinux_load_policy($1)
#selinux_set_parameters($1)
#selinux_set_enforce_mode($1)
')
### <summary>
### Make the specified domain unconfined.
### </summary>
### <param name="domain">
### Domain to make unconfined.
### </param>

```
interface('polaris_unconfined_domain',
          gen_require('
            class dbus all_dbus_perms;
            class nscd all_nscd_perms;
            class passwd all_passwd_perms;
          ')
)

# Use any Linux capability.
allow $1 self:capability ~{ sys_module };
allow $1 self:capability2 ~{ mac_admin mac_override };
allow $1 self:fifo_file { manage_fifo_file_perms relabelfrom relabelto };

# Transition to myself, to make get_ordered_context_list happy.
allow $1 self:process { dyntransition transition };

# Write access is for setting attributes under /proc/self/attr.
allow $1 self:file rw_file_perms;
allow $1 self:dir rw_dir_perms;

# Userland object managers
allow $1 self:nscd all_nscd_perms;
allow $1 self:dbus all_dbus_perms;
allow $1 self:passwd all_passwd_perms;
allow $1 self:association all_association_perms;
allow $1 self:socket_class_set create_socket_perms;

polaris_kernel_unconfined($1)
polaris_corenet_unconfined($1)
polaris_dev_unconfined($1)
polaris_domain_unconfined($1)
polaris_files_unconfined($1)
polaris_fs_unconfined($1)
polaris_selinux_unconfined($1)

systemd_config_all_services($1)

# in unconfined_domain_noaudit its under not deny_execmem
```
allow $1 self:process execmem;

#domain_mmap_low($1)
#
#ubac_process_exempt($1)
#
#optional_policy`
#auth_unconfined($1)
#`
#
#optional_policy`
## Communicate via dbusd.
#dbus_system_bus_unconfined($1)
#dbus_unconfined($1)
#`
#
#optional_policy`
#ipsec_setcontext_default_spd($1)
#ipsec_match_default_spd($1)
#`
#
#optional_policy`
#nscl_unconfined($1)
#`
#
#optional_policy`
#seutil_create_bin_policy($1)
#seutil_relabelto_bin_policy($1)
#`
#
#optional_policy`
#storage_unconfined($1)
#`
#
#optional_policy`
#xserver_unconfined($1)
#`
`

`---------------------------------------------------------------------`
```

## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
### </param>
#
interface('polaris_unconfined_service_fifo_file_manage',
    gen_require('type unconfined_service_t;
')

manage_fifo_files_pattern($1, unconfined_service_t, unconfined_service_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.if
No license file was found, but licenses were detected in source scan.
#
# March 2019, Shikhar Dogra
#
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#

policy_module(polarisfmancc, 1.0);

gen_require('type polaris_fman_cc_t;
')
polaris_btrace_data_manage(polaris_fman_cc_t)
polaris_crft_data_manage(polaris_fman_cc_t)
polaris_chasfs_manage(polaris_fman_cc_t)
polaris_tdlresolve_read(polaris_fman_cc_t)
polaris_tdldb_list_dirs(polaris_fman_cc_t)
polaris_cpld_read(polaris_fman_cc_t)
polaris_lua_read(polaris_fman_cc_t)
polaris_flashlib_read(polaris_fman_cc_t)
polaris_cpld_dev_use(polaris_fman_cc_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_cc_t)

# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_fman_cc_t)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)
type polaris_iosd_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc1)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc2)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc3)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc4)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.te
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dnl
dnl May 2020, Swati Kumari
dnl
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dnl
rpx86 Platform Max Bay Limits

max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 2)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/rpx86maps.m4
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#
# March 2017, Victor Kamensky
#

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 10621
## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.if
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# September 2017, Victor Kamensky
#
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#
/tmp/tmppub(/.*)?  gen_context(system_u:object_r:polaris_btrace_tmppub_t,s0)

# btrace utility to rotate logs
/usr/binos/bin/btman_rotate_immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta   -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.fc
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# March 2017, Victor Kamensky
#
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#
policy_module(polarisnvram, 1.0);

###############################################################################
# NVRAM
###############################################################################

ifdef(`ngwc_family`,

# suppose that in edison case nvram is not in partition
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)

# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
ifdef(`blackheart_platform',`
   gen_require(`
      type polaris_nvram_file_t;
      type polaris_iosd_t;
   `)
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
`)

ifdef(`sparrow_platform',`
   gen_require(`
      type polaris_nvram_file_t;
      type polaris_iosd_t;
   `)
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
`)

ifdef(`aventus_platform',`
   gen_require(`
      type polaris_nvram_file_t;
      type polaris_iosd_t;
   `)
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
`)

ifdef(`cabo_platform',`
   gen_require(`
      type polaris_nvram_file_t;
      type polaris_iosd_t;
   `)
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
`)

ifdef(`petra_platform',`
   gen_require(`
      type polaris_nvram_file_t;
   `)
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
`)

ifdef(`petra_platform',`
   type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# suppose that in edison case nvram is not in partition
gen_require(
    type polaris_iosd_t;
')
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t  polaris_nvram_file_t:filesystem getattr;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.te
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#
# February 2020, Victor Kamensky
#
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#

### <summary>Polaris cxp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarischasfs, 1.0);

##############################################################################
# Chasfs policy
##############################################################################
gen_require(''
    attribute domain;
')

type polaris_chasfs_t;
files_type(polaris_chasfs_t)

files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chassis")
files_tmp_filetrans(domain, polaris_chasfs_t, lnk_file, "chasfs")
# LOOK AT ME: on ultra /tmp/cc/chasfs is created as directory, but
# on other platforms it is symbolic to /tmp/chassis/local/cc/chasfs
# as it happens for rp and fp. Would it be better to fix ultra
# script(s)?
files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

# cpld-symlink.service, creates /tmp/chassis while /tmp is
# still tmpfs_t, ie before systemd-tmpfiles runs and had a
# chance to set tmp_t label on /tmp
gen_require(
    "type initrc_t;"
)
fs_tmpfs_filetrans(initrc_t, polaris_chasfs_t, dir, "chassis")

init_script_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

polaris_process_domain_template(chasync)

corecmd_exec_bin(polaris_chasync_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_chasync_t)

polaris_btrace_data_manage(polaris_chasync_t)
polaris_chasfs_manage(polaris_chasync_t)
polaris_cpld_read(polaris_chasync_t)
polaris_boot_tmp_read(polaris_chasync_t)
polaris_read_debug_conf(polaris_chasync_t)
polaris_rmonbifo_tmp_read(polaris_chasync_t)
polaris_proc_rmonbifo_read(polaris_chasync_t)
polaris_disk_bootflash_read_lnk(polaris_chasync_t)
polaris_disk_harddisk_read_lnk(polaris_chasync_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_lod_so(polaris_chasync_t)

allow polaris_chasync_t self:capability sys_resource;
allow polaris_chasync_t self:process setpgid;

# access of crashinfo dir for the domain
polaris_disk_crashinfo_getattr(polaris_chasync_t)

# allow access of /tmp/rp/chasync for the polaris chasync_t domain to
# create/write/read dirs/files with domain specific context
type polaris_chasync_tmp_t;
files_type(polaris_chasync_tmp_t)
files_tmp_file(polaris_chasync_tmp_t)
files_tmp_filetrans(polaris_chasync_tmp_t, polaris_chasync_tmp_t, dir, "chasync")
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_fifo_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thd-1499428203 etc
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, file)
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

fs_getattr_tmpfs(polaris_chasync_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_t)

gen_require("
    type rsync_t;
    type init_t;
    type rsync_tmp_t;
"
)  
rsync_entry_domtrans(polaris_chasync_t, rsync_t)
allow rsync_t polaris_chasync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t init_t:unix_stream_socket ioctl;

# upon exec rsync inherits chasync's stdout/stderr fifo files
allow rsync_t polaris_chasync_t:fifo_file { getattr write };  
# in chasync_prepost_rsync.sh, CHASYNC_PID_DIR (rsync pid files) is deleted by rsync
fs_getattr_tmpfs(rsync_t)

# allow file:map for rsync_tmp_t
allow rsync_t rsync_tmp_t:file map;
dev_getattr_generic_blk_files(rsync_t)
dev_getattr_loop_control(rsync_t)
# need access to /usr/bin/mount
mount_entry_type(rsync_t)
# need access to dev/sda1
storage_getattr_fixed_disk_dev(rsync_t)
ifdef(`ngwc_family',`

#Read and write RPC sysctls

kernel_rw_rpc_sysctls(rsync_t)
mount_domtrans(rsync_t)
fstools_domtrans(rsync_t)
# Create/read/write on fixed device disk nodes
storage_manage_fixed_disk(rsync_t)
# stat -f -L -c %T /mnt/usb0
polaris_getattr_removable(rsync_t)
storage_filetrans_all_named_dev(rsync_t)
')

# ============== polaris_dyncfg ==============
polaris_dyncfg_tmp_read(rsync_t)

# ============== polaris_chasync_t ==============
polaris_btrace_persistent_data_search(polaris_chasync_t)
# chasync.sh code executes mv command
allow polaris_chasync_t self:process { setfscreate };
# chasync.sh code executes ping command to check if ping works before trying rsync for the first time
netutils_domtrans_ping(polaris_chasync_t)

# chasync.sh code in wlc saves logs during cleanup to /var/log/chasync
type polaris_chasync_log_t;
logging_log_file(polaris_chasync_log_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
logging_log_filetrans(polaris_chasync_t, polaris_chasync_log_t, dir, "chasync")

# chasfs_boottime script

polaris_process_domain_template(chasfs_boottime)
unconfined_domain(polaris_chasfs_boottime_t)

# chasfs_boottime.sh starts cman_fp or cmand with -C option; allow its
# transition to fman_fp_t type
optional_policy(
 polaris_cm_rp_domtrans(polaris_chasfs_boottime_t)
 ')
optional_policy(
 polaris_cm_fp_domtrans(polaris_chasfs_boottime_t)
 ')
optional_policy(
 polaris_cm_cc_domtrans(polaris_chasfs_boottime_t)
 ')

ifdef(‘ngwc_family’,

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_chasync_t)

# Allow losetup in helper script
fstools_domtrans(polaris_chasync_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_chasync_t)

# Allow console logging
term_open_unallocated_ttys(polaris_chasync_t)

# Allow logger which is used for syslog message
allow polaris_chasync_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_chasync_t)

# logger needs to run pidof
dev_read_sysfs(polaris_chasync_t)
domain_read_all_domains_state(polaris_chasync_t)

`)
type polaris_chasync_files_t;
files_type(polaris_chasync_files_t)
polaris_pfile_type(polaris_chasync_files_t)

optional_policy(`
gen_require(`
   type polaris_disk_harddisk_t;
   type polaris_disk_bootflash_t;
`)
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "sys_report")
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "fp_cc_crash")
filetrans_pattern(polaris_chasync_t, polaris_disk_bootflash_t, polaris_chasync_files_t, file, "user_input_custom.xml")

# chasync can manage files inside of its own polaris_disk_chasync_t directories
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
allow polaris_chasync_t polaris_chasync_files_t:dir watch;
polaris_install_disk_read(polaris_chasync_t)
`)

optional_policy(`
# chasync invoked sys_report does ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_chasync_t)
')

# chasync moves inv files from /tftp/inv to chasfs directory
allow polaris_chasync_t self:capability { chown fowner fsetid }

gen_require('
type brctl_t;
')

# pd_iox.sh invokes brctl which needs access to chasfs
polaris_chasfs_read(brctl_t)

#allow chasync to unmount flash partition
mount_domtrans(polaris_chasync_t)

sysnet_domtrans_ifconfig(polaris_chasync_t)

# chasync.sh needs read access to /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_chasync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.te
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#
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#

policy_module(polariscpp, 1.0);

###############################################################################
# Polaris cpp (ultra)
###############################################################################

type polaris_cpp_device_t;
dev_node(polaris_cpp_device_t)

# deals with /dev/shm files semaphors, etc
type polaris_cpp_tmpfs_t;
files_tmpfs_file(polaris_cpp_tmpfs_t)
attribute polaris_cpp_domain;
fs_tmpfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
polaris_cpp_tmpfs_manage(polaris_cpp_domain)
polaris_cerr_shm_manage(polaris_cpp_domain)
# on TSN ucode_dram lives in hugetlbfs
fs_hugetlbfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
gen_require(
    type hugetlbfs_t;
')
manage_files_pattern(polaris_cpp_domain, hugetlbfs_t, polaris_cpp_tmpfs_t)

# deals with cpp /tmp files
type polaris_cpp_tmp_t;
files_tmp_file(polaris_cpp_tmp_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_req")
manage_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
allow polaris_cpp_domain polaris_cpp_tmp_t:file map;
fs_getattr_tmpfs(polaris_cpp_domain)

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library
optional_policy(
    polaris_cpp_cavium_dma_map(polaris_cpp_domain)
')

type polaris_i95_device_t;
dev_node(polaris_i95_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.te
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#
# March 2017, Victor Kamensky
#
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#
#
# some platforms have /usr/binos/bin/fman_fp as hardlink to
# /usr/binos/bin/fman_fp_image
/usr/binos/bin/fman_fp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_us_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.fc
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#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris ngiolite Policy Rules.</summary>

####################################################################
## <summary>
##      Execute mcp_smartctl_cmds.sh in the polaris_smartctl domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## <//summary>
## <//param>
#
interface('polaris_smartctl_domtrans',`
   gen_require(
       type polaris_smartctl_t, polaris_smartctl_exec_t;
   )

   corecmd_search_bin($1)
   domtrans_pattern($1, polaris_smartctl_exec_t, polaris_smartctl_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.if
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#
# February 2018, Manohar Hungund
#
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#
/dev/act2           -c gen_context(system_u:object_r:polaris_act2_device_t,s0)
/tmp/hw_entropy     -- gen_context(system_u:object_r:polaris_hw_entropy_t,s0)

Found in path(s):
policy_module(polariscmcc, 1.0);

gen_require('%
    type polaris_cm_cc_t;
')

polaris_btrace_data_manage(polaris_cm_cc_t)
polaris_crft_data_manage(polaris_cm_cc_t)
polaris_chasfs_manage(polaris_cm_cc_t)
polaris_tdlresolve_read(polaris_cm_cc_t)
polaris_tdlldb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polaris_lua_read(polaris_cm_cc_t)
polaris_flashlib_read(polaris_cm_cc_t)
polaris_cpld_dev_use(polaris_cm_cc_t)
polaris_proc_rmonbifo_read(polaris_cm_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_cc_t)

optional_policy('%
    # access to /dev/iocp0
    polaris_spa_dev_use(polaris_cm_cc_t)
')

optional_policy('%
    # access to /dev/htdb[0-9]*
    polaris_htdp_dev_use(polaris_cm_cc_t)
')

# read /proc/cmdline
kernel_read_system_state(polaris_cm_cc_t)
# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_cc_t)

polaris_obfl_data_read(polaris_cm_cc_t)
# cmcc module as part of init calls cmem_obfl_write_voltage_log(),
# which writes to obfl device.
polaris_obfl_data_manage(polaris_cm_cc_t)
# on vxe platform /obfl is symlink to /varied
ifdef('vxe_family',
  polaris_disk_varied_list(polaris_cm_cc_t)
')

# on lng works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)
polaris_i2c_use(polaris_cm_cc_t)
dev_rw_sysfs(polaris_cm_cc_t)

ifdef('crankshaft_family',
  # read,getattr, map access to /firmware/ files for Switzer-CC
  polaris_firmware_read(polaris_cm_cc_t)
polaris_firmware_getattr(polaris_cm_cc_t)
polaris_firmware_map(polaris_cm_cc_t)
')

# allow objstore access
polaris_disk_objstore_read(polaris_cm_cc_t)

# get interface address cmlib_if_config_addr at cman/lib/cmlib_msgs/src/cmlib_eobc.c
allow polaris_cm_cc_t self:udp_socket { create ioctl);

# on utah need to get model info
optional_policy(
  polaris_dash_dev_use(polaris_cm_cc_t)
')

#ifdef('fugazi_platform',
  #access to /dev/dash_fpga device on fugazi platform
  polaris_dash_dev_mcp_use(polaris_cm_cc_t)
')

#ifdef('nutella_platform',
  #access to /dev/nutella_fpga device on nutella platform
  optional_policy(
    polaris_nutella_fpga_dev_use(polaris_cm_cc_t)
  )
)

# handle /tmp/pci files on utah
type polaris_pci_tmp_t;
files_tmp_file(polaris_pci_tmp_t)
#ifdef('nutella_platform',
  # /tmp/pci/bus, /tmp/pci/vendor, /tmp/pci/device created by systemd unit
  gen_require(
    type initrc_t;
    type unconfined_service_t;
    type tmp_t;
  )

  files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_pci_tmp_t, dir, "pci")
manage_dirs_pattern(initrc_t, tmp_t, polaris_pci_tmp_t)
manage_files_pattern(initrc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
manage_files_pattern(polaris_cm_cc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)

logging_send_syslog_msg(polaris_cm_cc_t)

# cmcc module creates the PCI rescan shm mutex.
# /dev/shm/rescan_shm file.

  type polaris_cm_cc_tmpfs_t;
  files_tmpfs_file(polaris_cm_cc_tmpfs_t)
  fs_tmpfs_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, file)
  manage_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
  mmap_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
  dev_read_sysfs(polaris_cm_cc_t)
  dev_getattr_sysfs_fs(polaris_cm_cc_t)
  fs_getattr_tmpfs(polaris_cm_cc_t)

  # /tmp/udev-cc should it not be polaris_udev_tmp_t
  type polaris_cm_cc_tmp_t;
  files_tmp_file(polaris_cm_cc_tmp_t)
  files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmp_t, dir, "udev-cc")
  manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
  gen_require(
    type tmp_t;
    )
  manage_dirs_pattern(polaris_cm_cc_t, { tmp_t polaris_cm_cc_tmp_t }, polaris_cm_cc_tmp_t)

  # on tsn need access to /dev/moka_fpga
  optional_policy(
    polaris_mokafpga_dev_use(polaris_cm_cc_t)
    )

  optional_policy(
    # betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_cc_t)
    )

  # on macallan need access to /dev/quack
  optional_policy(
    polaris_quack_dev_use(polaris_cm_cc_t)
    )

    polaris_cpld_write(polaris_cm_cc_t)

    optional_policy(
    # on starfleet access gettysburg_fpga
    polaris_gettysburg_fpga_dev_use(polaris_cm_cc_t)
    )
open source used in field network director for virtual machine installation 4.8.1

```c
# /dev/epactrlN on qwlc
optional_policy('polaris_epa_dev_use(polaris_cm_cc_t)')

# /dev/luna_fpga on qwlc
optional_policy('polaris_luna_mbfpga_dev_use(polaris_cm_cc_t)')

# /dev/astro on qwlc
optional_policy('polaris_astro_dev_use(polaris_cm_cc_t)')

# /dev/huron_fpga on Sumatra
optional_policy('polaris_huron_dev_use(polaris_cm_cc_t)')

type polaris_nim_xxd_tmp_t;
files_tmp_file(polaris_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t)
ifdef`starfleet_platform',
    # In cman_cc
    #  cmcc_starfleet_act2_authentication_udi in cman/cc/src/cmcc_starfleet.c
    #  cmcc_starfleet_cpuboard_act2_authentication_udi cman/cc/src/cmcc_starfleet.c
    #  tam_lib_device_open infra/act2/tam_act2/tam_lib/src/tam_lib_device.c:
    polaris_act2_dev_use(polaris_cm_cc_t)
')

ifdef`crankshaft_family',
    # modprobe sm_nim_adpt.ko for Switzer-CC
    modutils_domtrans_insmod(polaris_cm_cc_t)
    # /dev/sm_nim_adpt device files for Switzer-CC
    polaris_sm_nim_adpt_dev_use(polaris_cm_cc_t)
')

    # Mapping permission for /dev/shm/<name>
    ifdef`crankshaft_family',
        gen_require('type systemd_tmpfiles_t;
        mmap_files_pattern(systemd_tmpfiles_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')
```
# on ngwc cmcc needs to access /dev/chdrvmmap forasic memory mapping
optional_policy('polaris_chdrvmmap_dev_use(polaris_cm_cc_t)')

ifdef('vxe_family',
# bind to BMC_AGENT_CLIENT_PORT port from cman_tlv_init
corenent_tcp_bind_polaris_bmc_agent_client_port(polaris_cm_cc_t)
')

# allow /usr/binos/bin/cmcc to access /tmp/hd_sz
gen_require('gen_require('type udev_tmp_t;')
read_files_pattern(polaris_cm_cc_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_cc_t)

# using existing interface "polaris_cm_rp_tmp_manage" for polaris_cm_cc_t
# to acces /tmp/cmllib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manage(polaris_cm_cc_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_rp_tmp_t, file, "cmllib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_cc_t)
dev_nvme_blk_files_manage(polaris_cm_cc_t)

# access to /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2016-2019 by Cisco Systems, Inc.  
# All rights reserved  
#  
## <summary>Polaris polarissortfiles Policy Rules.</summary>

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.if

No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2016-2021 by Cisco Systems, Inc.  
# All rights reserved  
#  
## <summary>Polaris Storage Policy Rules.</summary>

########################################################################
# Persistent storage policy
########################################################################

########################################################################
##<summary>
## Make the specified type usable as default type for files
## in a Polaris persistent (bootflash, hardisk, etc) filesystem.
## </summary>
##<param name="type">
##Type to be used for files.
##</param>
#
interface(`polaris_disk_type',`
  files_type($1)
  gen_require(`
    attribute polaris_disk;
  `)
  typeattribute $1 polaris_disk;
`)
########################################################################
## <summary>
## Make the specified type usable for files
## in a Polaris persistent (bootflash, hardisk, etc)
## filesystem.
## </summary>
## <param name="type">
## Type to be used for files.
## </param>
#
# interface(`polaris_pfile_type`,
  files_type($1)
  gen_require(`
    attribute polaris_disk;
    `)
  typeattribute $1 polaris_disk;
  `)

##########################
## <summary>
## Read any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_persistent_read`,
  gen_require(`
    attribute polaris_disk;
    `)
  read_files_pattern($1, polaris_disk, polaris_disk)
  read_lnk_files_pattern($1, polaris_disk, polaris_disk)
  list_dirs_pattern($1, polaris_disk, polaris_disk)
  `)

##########################
## <summary>
## Getattr of any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_persistent_getattr',
    gen_require(
        attribute polaris_disk;
    )
    list_dirs_pattern($1, polaris_disk, polaris_disk)
    getattr_files_pattern($1, polaris_disk, polaris_disk)
    getattr_lnk_files_pattern($1, polaris_disk, polaris_disk)
)

#######################################
## <summary>
##	Listdir of any regular directory from persistent storage.
## </summary>
## <param name="domain">
##
## Domain allowed access.
## </param>
#
# interface('polaris_persistent_list_dirs',
#    gen_require(
#        attribute polaris_disk;
#    )
#    list_dirs_pattern($1, polaris_disk, polaris_disk)
#)

#######################################
## <summary>
##	Write/read any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
##
## Domain allowed access.
## </param>
#
# interface('polaris_persistent_manage',
#    gen_require(
#        attribute polaris_disk;
#    )
#    manage_files_pattern($1, polaris_disk, polaris_disk)
#    manage_dirs_pattern($1, polaris_disk, polaris_disk)
#    manage_lnk_files_pattern($1, polaris_disk, polaris_disk)
#)

#######################################
## <summary>
## Map any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_persistent_map',
   gen_require(
      attribute polaris_disk;
   )
   allow $1 polaris_disk:file map;
)

# debug.conf

### Read debug.conf from persistent storage.
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
# interface('polaris_read_debug_conf',
   gen_require(
      type polaris_debug_conf_t;
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type tmp_t;
   )
   read_files_pattern($1, polaris_disk_bootflash_t, polaris_debug_conf_t)
   read_files_pattern($1, polaris_disk_harddisk_t, polaris_debug_conf_t)
   read_files_pattern($1, tmp_t, polaris_debug_conf_t)
   read_lnk_files_pattern($1, tmp_t, polaris_debug_conf_t)
   polaris_disk_bootflash_read_lnk($1)
)

# packages.conf

...
## <summary>
## Read packages.conf from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_read_packages_conf',
#   gen_require(`
#     type polaris_packages_conf_t;
#     type polaris_disk_bootflash_t;
#     type polaris_disk_harddisk_t;
#   ')
#   read_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
#   read_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
# ')
#

lassen

## <summary>
## Manage packages.conf in persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_manage_packages_conf',
#   gen_require(`
#     type polaris_packages_conf_t;
#     type polaris_disk_bootflash_t;
#     type polaris_disk_harddisk_t;
#   ')
#   manage_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
#   manage_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
# ')
#

lassen

## <summary>
## Write/read any regular file/directory from /varied
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#
interface('polaris_disk_varied_manage',
    gen_require(
        type polaris_disk_varied_t;
    )
    manage_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

###########################################################
### <summary>
###      read any regular file/directory from /varied
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_disk_varied_read',
    gen_require(
        type polaris_disk_varied_t;
    )
    read_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

###########################################################
### <summary>
###      Search /varied directory
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface('polaris_disk_varied_search',
    gen_require(
        type polaris_disk_varied_t;
    )
    search_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

###########################################################
### <summary>
###      List/read /varied directory
### </summary>
interface('polaris_disk_varied_list',
    gen_require(
        type polaris_disk_varied_t;
    )
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

interface('polaris_disk_varied_list',
    gen_require(
        type polaris_disk_varied_t;
    )
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

interface('polaris_disk_varied_list',
    gen_require(
        type polaris_disk_varied_t;
    )
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

interface('polaris_disk_varied_list',
    gen_require(
        type polaris_disk_varied_t;
    )
    list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)
search_dirs_pattern($1, polaris_core_file_t, polaris_core_file_t)

'''

### <summary>
### Read/Open/Search polaris_core_file_t dir
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_core_file_read',
    gen_require(`
        type polaris_core_file_t;
    `)
    allow $1 polaris_core_file_t:dir read;
    getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
`)

### <summary>
### Get attrib of bootflash fifo file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_disk_bootflash_fifo_file_getattr',
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    getattr_fifo_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
`)

### <summary>
### Get attrib of bootflash sock file.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
interface(`polaris_disk_bootflash_sock_file_getattr',
    gen_require(
        type polaris_disk_bootflash_t;
    
    )
    getattr_sock_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    )

interface(`polaris_disk_bootflash_read_lnk',
    gen_require(
        type polaris_disk_bootflash_t;
    
    )
    read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    )

interface(`polaris_disk_bootflash_search',
    gen_require(
        type polaris_disk_bootflash_t;
    
    )
    search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    )
# Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

## /csl_p_0, and /csl_p_1

## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>

#
#
# interface('polaris_disk_csl_manage',
#    gen_require(
#        type polaris_disk_csl_p_t;
#        type polaris_disk_csl_s_t;
#    ')
#    manage_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
#    manage_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
#    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
#    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
#')

# Write/read any regular file/directory under /csl_p_0, /csl_p_1, /csl_s_0, and /csl_s_1
## <summary>
##     Domain allowed access.
## </summary>
## </param>

#
#
# interface('polaris_disk_csl_read',
#    gen_require(
#        type polaris_disk_csl_p_t;
#        type polaris_disk_csl_s_t;
#    ')
#    read_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
#    read_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
#    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
#    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
#')

# Write/read any regular file/directory under /objstore,
## <summary>
##     Domain allowed access.
## </summary>
## </param>
interface(`polaris_disk_objstore_manage',`
gen_require(`
type polaris_disk_objstore_t;
')
manage_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
')

interface(`polaris_disk_objstore_read',`
gen_require(`
type polaris_disk_objstore_t;
')
read_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
list_dirs_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
')

interface(`polaris_disk_objstore_read_link',`
gen_require(`
type polaris_disk_objstore_t;
')
read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
')

interface(`polaris_disk_harddisk_read',`
gen_require(`
type polaris_disk_harddisk_t;
')
read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

interface(`polaris_disk_harddisk_read_link',`
gen_require(`
type polaris_disk_harddisk_t;
')
read_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')
type polaris_disk_harddisk_t;

read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

#######################################
## <summary>
##      Read bootflash files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_bootflash_read`,
  gen_require(
    type polaris_disk_bootflash_t;
  )
  read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  )

#######################################
## <summary>
##      Manage bootflash files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_bootflash_manage`,
  gen_require(
    type polaris_disk_bootflash_t;
  )
  manage_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  manage_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
  )

########################################
## <summary>
##	Create an object in the polaris_disk_bootflash_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <param name="private type">
## The type of the object to be created.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface(`polaris_bootflash_filetrans',`
gen_require(`
type polaris_disk_bootflash_t;
')
filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
')

# Manage bootflash files
# </summary>
# <param name="domain">
# Domain allowed access.
# </summary>
# </param>
# interface(`polaris_harddisk_manage',`
gen_require(`
type polaris_disk_harddisk_t;
')
manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
### Create an object in the polaris_disk_harddisk_t directories, with a private type using a type transition.

**<summary>**

**<param name="domain">**

**<summary>**

**<param name="private type">**

**<summary>**

**<param name="object">**

**<summary>**

**<param name="name" optional="true">**

**<summary>**

```}
interface('polaris_harddisk_filetrans',
  gen_require(
    type polaris_disk_harddisk_t;
  )
)
```
```
filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
```

**<summary>**

**<param name="domain">**

**<summary>**

**<param name="name" optional="true">**

**<summary>**

#
interface(`polaris_disk_crashinfo_getattr',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)

###############################
## <summary>
## Manage polaris_disk_crashinfo_t (typically /crashinfo
## symbolic link and real disk it points to)
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_disk_crashinfo_manage',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
manage_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)

###############################
## <summary>
## Read links of polaris_disk_crashinfo_t
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_disk_crashinfo_read_lnk',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)
interface('polaris_disk_license_manage',
    gen_require(
        type polaris_disk_license_t;
    )
    manage_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    manage_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    allow $1 polaris_disk_license_t:file map;
    )

interface('polaris_disk_license_read',
    gen_require(
        type polaris_disk_license_t;
    )
    read_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    read_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
    )
interface('polaris_getattr_removable',
    gen_require(
        type removable_t;
    )
)

allow $1 removable_t:filesystem getattr;
allow $1 removable_t:dir getattr;
')

#<summary>
# Create, read, write, and delete all removable files.
#</summary>
#<param name="domain">
# Domain allowed access.
#</summary>
#
#interface('polaris_removable_manage',
#    gen_require(
#        type removable_t;
#    )
#)

manage_files_pattern($1, removable_t, removable_t)
manage_dirs_pattern($1, removable_t, removable_t)
')

#<summary>
# read all removable files.
#</summary>
#<param name="domain">
# Domain allowed access.
#</summary>
#
#interface('polaris_removable_read',
#    gen_require(
#        type removable_t;
#    )
#)

read_files_pattern($1, removable_t, removable_t)
list_dirs_pattern($1, removable_t, removable_t)
read_lnk_files_pattern($1, removable_t, removable_t)
')
## <summary>
## Get the attributes of silent roll partition
## filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_getattr_filesystem_disk_ucode',
    gen_require(
        type polaris_disk_ucode_t;
    )
)

########################################
## <summary>
## Get the attributes of a bootflash
## filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>
#
# interface('polaris_getattr_bootflash',
    gen_require(
        type polaris_disk_bootflash_t;
    )
)

allow $1 polaris_disk_ucode_t:filesystem getattr;
')

########################################
## <summary>
## Get the attributes of a harddisk
## filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </param>
#
interface('polaris_getattr_harddisk',

gen_require(' 

type polaris_disk_harddisk_t; 
')

allow $1 polaris_disk_harddisk_t:filesystem getattr;
')

########################################################################
## <summary>
##      Get the attributes of an harddisk 
##      file.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_getattr_file_harddisk',

/gen_require(' 

type polaris_disk_harddisk_t; 
')

gattr_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

########################################################################
## <summary>
##      Watch persistent file or directories 
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_persistent_watch',

/gen_require(' 

attribute polaris_disk; 
')

allow $1 polaris_disk: {dir file } watch;
')

########################################################################
## <summary>
##     Create an object in the polaris_disk_crashinfo_t directories, 
##     with a private type using a type transition.
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <param name="private type">
## The type of the object to be created.
## </summary>
## </param>
## <param name="object">
## The object class of the object being created.
## </summary>
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </summary>
## </param>

# interface('polaris_crashinfo_filetrans',
    gen_require(
        'type polaris_disk_crashinfo_t;
    ')

    filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
')

############################################################
## <summary>
## Get the attributes of an polaris_disk_config_t file or directory.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
# interface('polaris_getattr_disk_config',
    gen_require(
        'type polaris_disk_config_t;
    ')

    getattr_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
    getattr_dirs_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
## <summary>
## Create an object in the polaris_disk_config_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="private type">
## The type of the object to be created.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface(`polaris_disk_config_filetrans',`
gen_require(`
type polaris_disk_config_t;
')
)
filetrans_pattern($1, polaris_disk_config_t, $2, $3, $4)
')

## <summary>
## Manage bootflash files mmap
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
#
interface(`polaris_bootflash_files_mmap',`
gen_require(`
type polaris_disk_bootflash_t;
')
mmap_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.if
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# March 2020, Victor Kamensky
#
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#

policy_module(polarisjvm, 1.0);

gen_require(
    type polaris_jvm_t;
)

# access /etc/passwd
auth_use_nsswitch(polaris_jvm_t)

# java through posix_sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_jvm_t)

# checks whether IPV6 is configured accessing /proc/pid/net/if_inet6
kernel_read_network_state(polaris_jvm_t)

# handling ~/.oracle_jre_usage
type polaris_jvm_home_t;
files_type(polaris_jvm_home_t)
gen_require(
    type user_home_dir_t;
)
    filetrans_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
    manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t)
    manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

# handling /tmp/hsperfdata_root
    type polaris_jvm_tmp_t;
    files_type(polaris_jvm_tmp_t)
gen_require(
    type tmp_t;
)
    files_tmp_filetrans(polaris_jvm_t, polaris_jvm_tmp_t, dir, "hsperfdata_root")
manage_dirs_pattern(polaris_jvm_t, tmp_t, polaris_jvm_tmp_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
mmap_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)

# listen on 9093 websocket tcp port
corenet_tcp_bind_polaris_poljvm_websocket_port(polaris_jvm_t)
corenet_tcp_bind_generic_node(polaris_jvm_t)
allow polaris_jvm_t self:tcp_socket create_stream_socket_perms;

# java uses jit and needs executable anonymous mapping
allow polaris_jvm_t self:process execmem;

# Allow JDK access to read cpu and memory utilization data on start up
gen_require(''
  type proc_t;
')

allow polaris_jvm_t proc_t:file { getattr open read };
fs_read_cgroup_files(polaris_jvm_t)
fs_search_cgroup_dirs(polaris_jvm_t)

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#

### <summary>Polaris plogd Policy Rules.</summary>

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#

### <summary>Polaris hm Policy Rules.</summary>

##########################################################################
## <summary>
## Write into fifo file created by hman, typical case when
## hman starts script under popen.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_hman_use_fifo',
   gen_require(
      type polaris_hm_t;
   )
)
write_fifo_files_pattern($1, polaris_hm_t, polaris_hm_t)

########################################
## <summary>
## Read tmp files created by hman. I.e /tmp/myhostname.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_hm_tmp_read',
   gen_require(
      type polaris_hm_tmp_t;
   )
)
read_files_pattern($1, polaris_hm_tmp_t, polaris_hm_tmp_t)

########################################
## <summary>
## Execute pkg_summary.sh in its own domain
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <rolecap/>
# interface('polaris_pkg_summary_domtrans',
    gen_require('polaris_pkg_summary_t;
polaris_pkg_summary_exec_t;
')
corecmd_search_bin($1)
dotrans_pattern($1, polaris_pkg_summary_exec_t, polaris_pkg_summary_t)
')

########################################
## <summary>
##      Execute pkg_to_tree.sh in its own domain
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
# interface('polaris_pkg_to_tree_domtrans',
    gen_require('polaris_pkg_to_tree_t;
polaris_pkg_to_tree_exec_t;
')
corecmd_search_bin($1)
dotrans_pattern($1, polaris_pkg_to_tree_exec_t, polaris_pkg_to_tree_t)
')

########################################
## <summary>
##	Execute hman in the polaris_cli_fs_cmds domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##
## </param>
## <rolecap/>
#
# interface('polaris_cli_fs_cmds_domtrans',
    gen_require('polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
')

############################################################
## <summary>
##      Read file /tmp/pkg_summary.txt file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pkg_summary_tmp_read`,
    
    gen_require(
        
        type polaris_pkg_summary_tmp_t;
    
    
    read_files_pattern($1, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)
    
    )

############################################################
## <summary>
##      read the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_show_provision_temp_read`,
    
    gen_require(
        
        type polaris_show_provision_tmp_t;
    
    
    read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    
    )

############################################################
## <summary>
##      manage the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_show_provision_temp_manage`,
    
    gen_require(
        
        type polaris_show_provision_tmp_t;
    
    
    read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    
    )
gen_require(
  
  type polaris_show_provision_tmp_t;
  
)

manage_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
manage_link_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
manage_dirs_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
files_tmp_filetrans($1, polaris_show_provision_tmp_t, { file dir })

')

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  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.if
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#
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#
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#

policy_module(polarispsvp, 1.0);

polaris_process_domain_template(psvp)

# transition to pman domain, once pman is invoked by psvp
polaris_pman_domtrans(polaris_psvp_t)
# transition to pvp domain, once pvp is invoked by psvp
polaris_pvp_domtrans(polaris_psvp_t)

corecmd_exec_bin(polaris_psvp_t)
corecmd_exec_shell(polaris_psvp_t)

# can execute process in polaris domain
polaris_exec(polaris_psvp_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. Le it need quite a bit of priviledges
domain_read_all_domains_state(polaris_psvp_t)

# another issue of running busybox start-stop-daemon under
# psvp_t label
# type=AVC msg=audit(1480527500.482:46): avc: denied { sys_ptrace } for pid=14853 comm="start-stop-daem" capability=19 scontext=system_u:system_r:polaris_psvp_t:s0 tcontext=system_u:system_r:polaris_psvp_t:s0 tclass=capability
allow polaris_psvp_t self:capability sys_ptrace;
# allow to read /proc/meminfo
kernel_read_system_state(polaris_psvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_psvp_t)

# work with /tmp files

type polaris_psvp_tmp_t;
files_tmp_file(polaris_psvp_tmp_t)
manage_dirs_pattern(polaris_psvp_tmp_t, tmp_t, polaris_psvp_tmp_t)
manage_files_pattern(polaris_psvp_tmp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
manage_fifo_files_pattern(polaris_psvp_tmp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
files_tmp_filetrans(polaris_psvp_tmp_t, polaris_psvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_psvp_tmp_t, dir, "psvp")

ifdef(`ngwc_family',`
# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)
')
')

# note split entry another psvp capability listed above
allow polaris_psvp_t self:capability sys_resource;

polaris_pvp_getattrs_tmp_dirs(polaris_psvp_t)
dmidecode_domtrans(polaris_psvp_t)
polaris_btrace_data_manage(polaris_psvp_t)
polaris_chasfs_manage(polaris_psvp_t)
polaris_cpld_read(polaris_psvp_t)
polaris_cpld_write(polaris_psvp_t)
polaris_monbifo_tmp_read(polaris_psvp_t)
polaris_ldldb_list_dirs(polaris_psvp_t)
polaris_boot_tmp_read(polaris_psvp_t)
polaris_disk_crashinfo_getattr(polaris_psvp_t)
polaris_flashlib_read(polaris_psvp_t)
polaris_read_debug_conf(polaris_psvp_t)

allow polaris_psvp_t self:capability dac_override;

# watch /tmp/sai/psvp
allow polaris_psvp_t polaris_psvp_tmp_t:dir watch;
# creates /tmp/sai/pvp/rp/run_stg2
polaris_pvp_manage_tmp_files(polaris_psvp_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/hardisk read access
ifdef(`vwlc_platform',`
  optional_policy(`
    polaris_ncd_tmp_read(polaris_psvp_t)
    `)
  `)

# permissions during shutdown
polaris_pvp_manage_tmp_files(polaris_psvp_t);

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#
# October 2019, Patrick O'Halloran
#
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#
#
policy_module(polariscrft, 1.0);

########################################################################
# CRFT policy
########################################################################
gen_require(`
  attribute domain;
  attribute polaris_extended_domain;
`)

# persistent CRFT files stored under crft_data
type polaris_crft_data_t;
files_type(polaris_crft_data_t)

# allow crft data file reside on persistent storage
polaris_pfile_type(polaris_crft_data_t)

attribute polaris_crft_data_domain;

typeattribute polaris_crft_data_t polaris_crft_data_domain;

# Start of mcp_crft_request context elements
polaris_utility_domain_template(crf_request)
# smand calls the mcp_crf_request.sh in bexec context
polaris_bexecute Domtrans(polaris_crf_request_t)
polaris_bexecute Domain(polaris_crf_request_t, polaris_crf_request_exec_t)

# read the cpld information
polaris_cpld_read(polaris_crf_request_t)

# dev/pty access as part of bexec operations
telnet_use_ptys(polaris_crf_request_t)

# filesystem attributes for df /
fs_getattr_xattr_fs(polaris_crf_request_t)

# btrace used in script uses these
polaris_btrace_tmppub_manage(polaris_crf_request_t)
polaris_use_btrace_fifo(polaris_crf_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmpp_read(polaris_crf_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmpp_manage(polaris_crf_request_t)

# ufs information captured by the chasfs utils
ifdef(`ngwc_family',`
  optional_policy(`
    polaris_ncd_tmpp_manage(polaris_crf_request_t)
  )
)

# scripts read /proc/cmdline
kernel_read_system_state(polaris_crf_request_t)

# ping the vrf
netutils_domtrans_ping(polaris_crf_request_t)
sysnet_domtrans_ifconfig(polaris_crf_request_t)

# rsync operations for members and standby rps
gen_require(`
  type rsync_exec_t;
  type rsync_port_t;
  )
allow polaris_crf_request_t rsync_exec_t:file { execute execute_no_trans getattr map open read }; 
allow polaris_crf_request_t rsync_port_t:tcp_socket name_connect;

# access to /etc/hosts for rp/members information
gen_require(`
  type net_conf_t;
  )
files_etc_filetrans(polaris_crft_request_t, net_conf_t, file, "hosts")
auth_use_nsswitch(polaris_crft_request_t)

# execute the bash script
corecmd_exec_bin(polaris_crft_request_t)

# net namespace filesystem
fs_read_nsfs_files(polaris_crft_request_t)
polaris_chasfs_manage(polaris_crft_request_t)

# script also accesses the persistent files from crft
polaris_persistent_manage(polaris_crft_request_t)
polaris_crft_data_manage_all(polaris_crft_request_t)

# ping operations via ip netns
gen_require(' type ifconfig_t; ')
netutils_domtrans_ping(ifconfig_t)

# Curl accesses from IoT boxes like petra/sparrow
gen_require(' type polaris_curl_t; type polaris_iosd_t; ')
allow polaris_curl_t polaris_crft_request_t:process sigchld;

# handle mktemp creation and cleanup
files_manage_generic_tmp_dirs(polaris_crft_request_t)
allow polaris_crft_request_t self:capability sys_resource;

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.te
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#
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#
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#
#
policy_module(polaristamdrp, 1.0);

gen_require(' type polaris_tamd_rp_t; ')
}
polaris_btrace_data_manage(polaris_tamd_rp_t)
polaris_crft_data_manage(polaris_tamd_rp_t)
polaris_chasfs_manage(polaris_tamd_rp_t)
polaris_tdlresolve_read(polaris_tamd_rp_t)
polaris_tdlldb_list_dirs(polaris_tamd_rp_t)
polaris_flashlib_read(polaris_tamd_rp_t)
logging_send_syslog_msg(polaris_tamd_rp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tamd_rp_t)

polaris_cpld_read(polaris_tamd_rp_t)
polaris_cpld_write(polaris_tamd_rp_t)

polaris_quack_dev_use(polaris_tamd_rp_t)

# tmp file for udi authentication
type polaris_tamd_rp_tmp_t;
files_tmp_file(polaris_tamd_rp_tmp_t);
files_tmp_filetrans(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, file, "tam_uid_validation")
manage_files_pattern(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t)
polaris_cm_rp_tmp_manage(polaris_tamd_rp_t)

# hybrid tam needs access to /objstore/.swtam
gen_require(`
    type polaris_disk_objstore_t;
    type root_t;
`)
filetrans_pattern(polaris_tamd_rp_t, root_t, polaris_disk_objstore_t, dir, "objstore")
manage_dirs_pattern(polaris_tamd_rp_t, polaris_disk_objstore_t, polaris_disk_objstore_t)
polaris_disk_objstore_manage(polaris_tamd_rp_t)

# need access to dash fpga to read/write TAM
optional_policy(`
    polaris_dash_dev_use(polaris_tamd_rp_t)
`)

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform`,`
    polaris_dash_dev_mcp_use(polaris_tamd_rp_t)
`)

allow polaris_tamd_rp_t self:capability net_admin;

# LOOK AT ME tamd_rp needs shell access to do something like this
# sh -c "echo 0x04 > /sys/devices/platform/cpld/reg_rp_reset_control"
# need to rework into simple open,write,close
corecmd_exec_shell(polaris_tamd_rp_t)
# LOOK AT ME access should be restricted after /flash/dummy_check is removed,
# which is tracked under CSCVh68866. Allow access to bootflash till then.
polaris_bootflash_read(polaris_tamd_rp_t)

optional_policy('  
# Allow /dev/dmammap access  
polaris_dmammap_dev_use(polaris_tamd_rp_t)  
')

# LOOK AT ME: /dev/mem access restriction  
polaris_dev_mem_use(polaris_tamd_rp_t)

optional_policy('  
polaris_ngwc_shm_manage(polaris_tamd_rp_t)  
')

optional_policy('  
polaris_remap_mem_dev_use(polaris_tamd_rp_t)  
')

polaris_cpld_dev_use(polaris_tamd_rp_t)

optional_policy('  
# allow access to /sys/devices/virtual/misc/gpio/gpio_out_assert  
polaris_ggpio_dev_read_write(polaris_tamd_rp_t)  
')

optional_policy('  
    polaris_quake_i2c_manage(polaris_tamd_rp_t)  
')

# /dev/aikido access  
polaris_aikido_dev_use(polaris_tamd_rp_t)

# tamlib debug file access  
polaris_tamlib_dbg_file_manage(polaris_tamd_rp_t)

# tam gpio sysfs access  
optional_policy('  
dev_rw_sysfs(polaris_tamd_rp_t)  
')

ifdef('petra_platform',
# allow access to /dev/i2c-0 for hash value  
polaris_i2c_use(polaris_tamd_rp_t)  
')
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.te
No license file was found, but licenses were detected in source scan.

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#
#
/usr/binos/conf/sort_files_by_inode.sh -- gen_context(system_u:object_r:polaris_sort_files_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.fc
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#
# policy_module(polariscedgestart, 1.0);

gen_require(
    'type polaris_cedge_start_t;
   ')

polaris_chasfs_manage(polaris_cedge_start_t)
polaris_boot_tmp_read(polaris_cedge_start_t)
polaris_bootflash Manage(polaris_cedge_start_t)
polaris_cpld_read(polaris_cedge_start_t)
polaris_flashlib_read(polaris_cedge_start_t)
polaris_rmonbifo_tmp_read(polaris_cedge_start_t)
polaris_btrace_tmppub_read(polaris_cedge_start_t)

# needed by install_util.sh
polaris_read_packages_conf(polaris_cedge_start_t)

corecmd_exec_bin(polaris_cedge_start_t)
corecmd_exec_shell(polaris_cedge_start_t)
auth_use_nsswitch(polaris_cedge_start_t)

polaris_dmi_ports_fetch_domtrans(polaris_cedge_start_t)

# runs ps -C cfmgr -o pid=
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_start_t)

# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_start_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_start_t)

# runs vip-confd-startup.sh needs transition into polaris_confd_t domain
polaris_confd_domtrans(polaris_cedge_start_t)

# runs systemctl start logrotate.service
systemd_exec_systemctl(polaris_cedge_start_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_cedge_start_t)

# runs install_assist.sh
polaris_install_engine_domtrans(polaris_cedge_start_t)

# write /bootflash/installer/images/pkg_boot_17.3.01/version
polaris_disk_install_manage(polaris_cedge_start_t)

gen_require(
    type polaris_disk_install_t;
)

# du -s /bootflash/installer/images/pkg_boot_17.3.01/confd0/cdb
allow polaris_cedge_start_t polaris_disk_install_t:filesystem getattr;

# chown -R binos /bootflash/sdwan
fs_getattr_xattr_fs(polaris_cedge_start_t)

allow polaris_cedge_start_t self:capability { chown fowner net_admin };

# PLEASE LOOK AT ME cedge_start.sh modifies set of directories that
# are supposed to be read only, like usr_t, etc_t, root_t
files_rw_usr_dirs(polaris_cedge_start_t)

gen_require(
    type usr_t;
)
manage_lnk_files_pattern(polaris_cedge_start_t, usr_t, usr_t)

libs_manage_lib_dirs(polaris_cedge_start_t)

gen_require(
    type lib_t;
)
manage_lnk_files_pattern(polaris_cedge_start_t, lib_t, lib_t)

files_manage_etc_symlinks(polaris_cedge_start_t)
files_manage_var_symlinks(polaris_cedge_start_t)

# creates /home directory in root
gen_require(
    type root_t;
)
manage_dirs_pattern(polaris_cedge_start_t, root_t, root_t)
manage_link_files_pattern(polaris_cedge_start_t, root_t, root_t)
# creates /var/log/sdwan
gen_require(
    type var_log_t;
)
manage_dirs_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
manage_link_files_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
corecmd_manage_bin_files(polaris_cedge_start_t)

# PLEASE LOOK AT ME copy unit files into /lib/systemd/system
# cp /tmp/sw/rp/0/0/rp_daemons/mount/lib/systemd/system/logrotate.service /lib/systemd/system
gen_require(
    type systemd_unit_file_t;
)
read_link_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# PLEASE LOOK AT ME need to have separate label for logrotate.service
# allow only to start if, do it once copy of logrotate.service is fixed
systemd_config_generic_services(polaris_cedge_start_t)
init_start(polaris_cedge_start_t)

# creates /var/log/confd
polaris_confd_var_log_manage(polaris_cedge_start_t)

# executes touch /etc/resolv.conf for case when it is missing
# check create_etc_resolv_conf make sure that it becomes net_conf_t
gen_require(
    type net_conf_t;
)
files_etc_filetrans(polaris_cedge_start_t, net_conf_t, file, "resolv.conf")
sysnet_create_config(polaris_cedge_start_t)
sysnet_write_config(polaris_cedge_start_t)

# creates /var/confd0 when box boots with startup config disabled
polaris_confd_var_filetrans(polaris_cedge_start_t, dir, "confd0")
polaris_confd_var_dir_manage(polaris_cedge_start_t)

# During controller-mode enablement/bringup,
# viptela scripts are not loaded as part of the base packages.
# viptela-start.sh script takes care of creating these references.
# It creates softlink copies them as below to desired location depending on the packaging (mono vs subpackage).
# "cp $PKG_PATH/lib/systemd/system/logrotate.service /lib/systemd/system"
Below policy statement allow copy access needed for viptela-logrotate.sh
# for updating /lib/systemd/system and /usr/binos/conf path
write_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# While creating softlink as below
# "ln -sf SPKG_PATH/usr/binos/conf/viptela-logrotate.sh /usr/binos/conf/viptela-logrotate.sh"
# As the ln command tries to create the new link, it removes the already existing link.
# ln deletes the file associated with the path name if this path name is the last link to the file.
# If ln can't get rid of the conflicting path name, it does not attempt to establish the new link.
# If ln successfully removes the conflicting path name, it then establishes the link.
# delete file permissions are hence needed for ln command to perform unlinking previous link
files_delete_etc_files(polaris_cedge_start_t)

# During cEdge upgrade, viptela-start.sh needs permissions to maintain the
# state of roll back timer in /bootflash/.rollback_timer/*
polaris_rbtimer_bootflash_manage(polaris_cedge_start_t)

# Nutella-XE - Vedge image install
#/bin/bash /tmp/sw/rp/0/0/rp_security/mount/usr/binos/conf/viptela-start.sh
mount_domtrans(polaris_cedge_start_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.te

1.1112 libnma 1.8.32-1.el8
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1.1113 python-requests 2.20.0 2.1.el8_1

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1.1114 jetty-plus 9.4.31.v20200723

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1115 commons-beanutils 1.8.0

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1.1117 aws-sdk-go 1.8.16

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<html>
<body>
<p>Class, field, and method level annotations for describing thread-safety policies.</p>
</body>
</html>

<p>Three class-level annotations describe the <em>intended</em> thread-safety promises of a class: <code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>. <code>@Immutable</code> means that the class is immutable, and implies <code>@ThreadSafe</code>. <code>@NotThreadSafe</code> is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use <code>@NotThreadSafe</code>.</p>

<p>These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with <code>@Immutable</code> actually is immutable.</p>

<h2>Field and method annotations</h2>
The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The <code>@GuardedBy(lock)</code> annotation documents that a field or method should be accessed only with a specific lock held.

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* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2-jar/net/jcip/annotations/package.html

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* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2.jar/net/jcip/annotations/ThreadSafe.java
* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2.jar/net/jcip/annotations/GuardedBy.java
* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2.jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2.jar/net/jcip/annotations/NotThreadSafe.java

**1.1124 weld-api 2.4.SP2**

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1.1125 perl-text-tabs-wrap 2013.0523 395.el8
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---
abstract: 'Expand tabs and do simple line wrapping'
author:
- 'David Muir Sharnoff <muir@idiom.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Tabs+Wrap
no_index:
directory:
  - t
  - inc
requires: {}
resources:
repository: http://github.com/muir/Text-Tabs-Wrap
version: 2013.0523

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019676549_1591379882.87/0/perl-Text-Tabs+Wrap-2013.0523-395.el8.src.rpm-
cosi-expand-archive-WoUTJPer/perl-Text-Tabs+Wrap.spec
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cosi-expand-archive-WoUTJPer/perl-Text-Tabs+Wrap.spec

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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

// This file was generated by gir (https://github.com/gtk-rs/gir)
// from gir-files (https://github.com/gtk-rs/gir-files)
// DO NOT EDIT

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;
    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(&self, cancellable: Option<&P>, callback: Q);
    fn acquire_async_future(&self) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;
    fn get_allowed(&self) -> bool;
}
fn get_can_acquire(&self) -> bool;

fn get_can_release(&self) -> bool;

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
);

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    ) {
        let user_data: Box<Q> = Box::new(callback);
    }
}
unsafe extern "C" fn acquire_async_trampoline::<
Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
>(
    _source_object: *mut gobject_sys::GObject,
    res: *mut gio_sys::GAsyncResult,
    user_data: glib_sys::gpointer,
) {
    let mut error = ptr::null_mut();
    let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
    let result = if error.is_null() {
        Ok(())
    } else {
        Err(from_glib_full(error))
    };
    let callback: Box_<Q> = Box::<from_raw(user_data as *mut _)>
        .call(callback(result));
}
let callback = acquire_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_acquire_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref().to_glib_none().0,
        Some(callback),
        Box::<into_raw(user_data as *mut _).>
    );
}

fn acquire_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    }));
}

fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}
fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
)
let user_data: Box<Q> = Box::new(callback);
unsafe extern "C" fn release_async_trampoline<Q: FnOnce(Result<(), glib::Error>) + Send + 'static,>(
    source_object: *mut gobject_sys::GObject,
    res: *mut gio_sys::GAsyncResult,
    user_data: glib_sys::gpointer,
) {
    let mut error = ptr::null_mut();
    let _ = gio_sys::g_permission_release_finish(source_object as *mut _, res, &mut error);
    let result = if error.is_null() {
        Ok(())
    } else {
        Err(from_glib_full(error))
    };
    let callback: Box<Q> = Box::from_raw(user_data as *mut _);
    callback(result);
}

let callback = release_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_release_async(self.as_ref().to_glib_none().0,
                                        cancellable.map(|p| p.as_ref()).to_glib_none().0,
                                        Some(callback),
                                        Box::into_raw(user_data) as *mut _,
    );
}

fn release_async_future(&self, ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    }));
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
        )
    }
fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-acquire0".as_ptr() as *const _,
        Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-release0".as_ptr() as *const _,
        Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}
f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-release\0".as_ptr as *const _,
        Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}
}

impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}

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1.1132 junit 4.13.1

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1.1138 gnome-bluetooth 3.34.3-1.el8

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* /opt/cola/permits/1258017051_1643022635.82/0/seam-faces-api-3-2-0-final-sources-2.jar/org/jboss/seam/faces/projectstage/UnitTest.java
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* /opt/cola/permits/1258017051_1643022635.82/0/seam-faces-api-3-2-0-final-sources-2.jar/org/jboss/seam/faces/event/PreNavigateEvent.java
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1.1140 shiro 1.8.0

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ConfigProperty(String name, boolean dynamic, boolean confidential) this.confidential = confidential; */ Get the
confidential flag public boolean isConfidential() return confidential; sb.append("```confidential=":).append(confidential);

1.1142 python36 3.6.8-
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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b) Use a suitable shared library mechanism for linking with the
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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c) Accompany the work with a written offer, valid for at least
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Subsection 6a, above, for a charge no more than the cost of
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.1166 libthai 0.1.27 2.el8

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   (For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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xmlns:xi="http://www.w3.org/2001/XInclude"
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  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
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  <xsl:call-template name="isc.copyright.format">
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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/Durations.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/ForeverDuration.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/DurationFactory.java
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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/ConditionEvaluationHandler.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/AssertionCondition.java

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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/CallableHamcrestCondition.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/ConditionAwaiter.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/reflect/FieldNameMatcherStrategy.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/reflect/TooManyFieldsFoundException.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/ConditionEvaluationLogger.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/Condition.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/reflect/FieldAnnotationMatcherStrategy.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/ConditionSettings.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/reflect/FieldMatcherStrategy.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/HamcrestToStringFilter.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/ConditionEvaluationListener.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/reflect/FieldTypeMatcherStrategy.java
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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/FieldSupplierBuilder.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/CallableCondition.java
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  jar/org/awaitility/reflect/FieldNameAndTypeMatcherStrategy.java
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  jar/org/awaitility/reflect/AssignableToFieldTypeMatcherStrategy.java

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  jar/org/awaitility/core/PredicateExceptionIgnorer.java
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  jar/org/awaitility/pollinterval/IterativePollInterval.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-
  jar/org/awaitility/core/DeadlockException.java
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  jar/org/awaitility/classpath/ClassPathResolver.java
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  jar/org/awaitility/core/ConditionTimeoutException.java
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1.1187 dc 1.4

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Pod::Spec.new do |
s
s.name = "DCPathButton"
s.version = "2.1.1"
s.summary = "A beautiful button copy from Path®"

s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {
:type => 'MIT',
text => 'The DCPathButton use the MIT license'
}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.h,m'
s.resources = ['DCPathButton/Sounds/*']

s.frameworks = 'QuartzCore', 'AudioToolbox'

s.requires_arc = true

end

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## DCPathButton

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* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift-Bridging-Header.h
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<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">

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* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/DCPathButton/Classes/DCPathItemButton.h
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* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Example/ViewController.m
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* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Example/BarButtonItemViewController.m
* /opt/cola/permits/1256285956_1642668616.11/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example-Swift/DCPathButtonItemViewContentor.h
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@c ispell-local-pdict: "ispell-dict"
1.1189 wayland 1.19.0-1.el8

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1.1190 protobuf-java-format 1.2

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1.1191 gpgme 1.13.1-9.el8
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hkp4py
requests
\input texinfo @c -*- texinfo -*-
@c %**start of header
@setfilename what-was-new.info
@settitle What Was New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What Was New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What Was New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu
* What Was New:

@detailmenu
--- The Detailed Node Listing ---

What Was New

* What Was New in GPGME 1120:

What Was New in GPGME 1120

* New in GPGME 1120:

@end detailmenu
@end menu

@node What Was New
@chapter What Was New

@multitable {aaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

The following are all the past @emph{What's New} sections for the Python Bindings HOWTO and other documentation.

@menu
* What Was New in GPGME 1120:
@end menu

@node What Was New in GPGME 1120
@section What Was New in GPGME 1120

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.
There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

- An expanded section on installing and troubleshooting the Python bindings.
- The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python versions list in the build process.
- In order to fix some other issues, there are certain underlying functions which are more exposed through the gpg.Context(), but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to gpg.core and the Context(), however, were intended (see below).
- Continuing work in identifying and confirming the cause of oft-reported problems installing the Python bindings on Windows.
- GSOC: Google's Surreptitiously Ordered Conscription; right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key_import function: building on prior work by Tobias Mueller.
- Several new methods were added to the gpg.Context(), including: key_import, key_math._import_.
howto#howto-export-key, key@math[_export], @uref{gpgme-python-howto#howto-export-public-key, key@math[_export]@math[_minimal]} and 
@uref{gpgme-python-howto#howto-export-secret-key, key@math[_export]@math[_secret]}.  
@end itemize
Importing and exporting examples include versions integrated with Marcel Fest's recently released @uref{https://github.com/Selfnet/hkp4py, HKP for Python} module. Some @uref{gpgme-python-howto#hkp4py, additional notes on this module} are included at the end of the HOWTO.  
@end itemize
Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyservers.  
@end itemize
Semi-formalised the location where @uref{gpgme-python-howto#draft-editions, draft versions} of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.  
@end itemize
The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).  
@end itemize
a reStructuredText (@samp{.rst}) version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using @uref{https://pandoc.org/, Pandoc}.  
@end itemize
Added a new section for @uref{gpgme-python-howto#advanced-use, advanced or experimental use}.  
@end itemize
Began the advanced use cases with @uref{gpgme-python-howto#cython, a section} on using the module with @uref{https://cython.org/, Cython}.  
@end itemize
Added a number of new scripts to the @samp{example/howto/} directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).  
@end itemize
Cleaned up a lot of things under the hood.  
@end itemize
@end itemize
@bye
This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.

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File: gpgme.info, Node: Top, Next: Introduction, Up: (dir)

Main Menu
******

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The
GnuPG Made Easy Reference Manual, for Version 1.12.1-beta100 of the
GPGME library.

* Menu:
* Introduction: How to use this manual.
* Preparation: What you should do before using the library.
* Protocols and Engines: Supported crypto protocols.
* Algorithms: Supported algorithms.
* Error Handling: Error numbers and their meanings.
* Exchanging Data: Passing data to and from GPGME.
* Contexts: Handling GPGME contexts.

Appendices

* Debugging: How to solve problems.
* Deprecated Functions: Documentation of deprecated functions.

* Library Copying: The GNU Lesser General Public License says how you can copy and share GnuPG Made Easy.
* Copying: The GNU General Public License says how you can copy and share this manual.

Indices

* Concept Index: Index of concepts and programs.
* Function and Data Index: Index of functions, variables and data types.

The Detailed Node Listing

Introduction

* Getting Started: Purpose of the manual, and how to use it.
* Features: Reasons to install and use GPGME.
* Overview: Basic architecture of the GPGME library.

Preparation

* Header: What header file you need to include.
* Building the Source: Compiler options to be used.
* Largefile Support (LFS): How to use GPGME with LFS.
* Using Automake: Compiler options to be used the easy way.
* Using Libtool: Avoiding compiler options entirely.
* Library Version Check: Getting and verifying the library version.
* Signal Handling: How GPGME affects signal handling.
* Multi-Threading: How GPGME can be used in an MT environment.

Protocols and Engines

* Engine Version Check: Verifying the engine version.
* Engine Information: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.

Algorithms

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.

Error Handling

* Error Values:: The error value and what it means.
* Error Codes:: A list of important error codes.
* Error Sources:: A list of important error sources.
* Error Strings:: How to get a descriptive string from a value.

Exchanging Data

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Creating Data Buffers

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

Manipulating Data Buffers

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

Contexts

* Creating Contexts:: Creating new GPGME contexts.
* Destroying Contexts:: Releasing GPGME contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with GPGME.
* Trust Item Management:: Managing trust items with GPGME.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations.
* Run Control:: Controlling how operations are run.

Context Attributes
* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting ASCII armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Locale:: Setting the locale of a context.

Key Management

* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

Trust Item Management

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

Crypto Operations

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

Sign

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.

Encrypt
GnuPG Made Easy (GPGME) is a C language library that allows to add support for cryptography to a program. It is designed to make access to public key crypto engines like GnuPG or GpgSM easier for applications. GPGME provides a high-level crypto API for encryption, decryption, signing, signature verification and key management.

GPGME uses GnuPG and GpgSM as its backends to support OpenPGP and the Cryptographic Message Syntax (CMS).
1.1 Getting Started

This manual documents the GPGME library programming interface. All functions and data types provided by the library are explained.

The reader is assumed to possess basic knowledge about cryptography in general, and public key cryptography in particular. The underlying cryptographic engines that are used by the library are not explained, but where necessary, special features or requirements by an engine are mentioned as far as they are relevant to GPGME or its users.

This manual can be used in several ways. If read from the beginning to the end, it gives a good introduction into the library and how it can be used in an application. Forward references are included where necessary. Later on, the manual can be used as a reference manual to get just the information needed about any particular interface of the library. Experienced programmers might want to start looking at the examples at the end of the manual, and then only read up those parts of the interface which are unclear.

The documentation for the language bindings is currently not included in this manual. Those languages bindings follow the general programming model of GPGME but may provide some extra high level abstraction on top of the GPGME style API. For now please see the README files in the lang/ directory of the source distribution.


1.2 Features

GPGME has a couple of advantages over other libraries doing a similar job, and over implementing support for GnuPG or other crypto engines into your application directly.

its free software
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its flexible
   GPGME provides transparent support for several cryptographic protocols by different engines. Currently, GPGME supports the OpenPGP protocol using GnuPG as the backend, and the Cryptographic Message Syntax using GpgSM as the backend.
its easy
GPGME hides the differences between the protocols and engines from the programmer behind an easy-to-use interface. This way the programmer can focus on the other parts of the program, and still integrate strong cryptography in his application. Once support for GPGME has been added to a program, it is easy to add support for other crypto protocols once GPGME backends provide them.

its language friendly
GPGME comes with languages bindings for several common programming languages: Common Lisp, C++, Python 2, and Python 3.

1.3 Overview
============

GPGME provides a data abstraction that is used to pass data to the crypto engine, and receive returned data from it. Data can be read from memory or from files, but it can also be provided by a callback function.

The actual cryptographic operations are always set within a context. A context provides configuration parameters that define the behaviour of all operations performed within it. Only one operation per context is allowed at any time, but when one operation is finished, you can run the next operation in the same context. There can be more than one context, and all can run different operations at the same time.

Furthermore, GPGME has rich key management facilities including listing keys, querying their attributes, generating, importing, exporting and deleting keys, and acquiring information about the trust path.

With some precautions, GPGME can be used in a multi-threaded environment, although it is not completely thread safe and thus needs the support of the application.

2 Preparation
*************

To use GPGME, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the
library is initialized, and how the requirements of the library are verified.

* Menu:

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use GPGME with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How GPGME affects signal handling.
* Multi-Threading:: How GPGME can be used in an MT environment.

2.1 Header
============

All interfaces (data types and functions) of the library are defined in the header file gpgme.h. You must include this in all programs using the library, either directly or through some other header file, like this:

```
#include <gpgme.h>
```

The name space of GPGME is gpgme_* for function names and data types and GPGME_* for other symbols. Symbols internal to GPGME take the form _gpgme_* and _GPGME_*.

Because GPGME makes use of the GPG Error library, using GPGME will also use the GPG_ERR_* name space directly, and the gpg_err*, gpg_str*, and gpgrt_* name space indirectly.

2.2 Building the Source
=======================

If you want to compile a source file including the gpgme.h header file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is located to the compilers include file search path (via the -I option).

However, the path to the include file is determined at the time the
source is configured. To solve this problem, gpgme ships with a small helper program gpgme-config that knows about the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the --cflags option to gpgme-config. The following example shows how it can be used at the command line:

```
gcc -c foo.c `gpgme-config --cflags`
```

Adding the output of gpgme-config --cflags to the compiler command line will ensure that the compiler can find the GPGME header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the -L option). For this, the option --libs to gpgme-config can be used. For convenience, this option also outputs all other options that are required to link the program with GPGME (in particular, the -lgpgme option). The example shows how to link foo.o with the GPGME library to a program foo.

```
gcc -o foo foo.o `gpgme-config --libs`
```

Of course you can also combine both examples to a single command by specifying both options to gpgme-config:

```
gcc -o foo foo.c `gpgme-config --cflags --libs`
```

If you need to detect the installed language bindings you can use list them using:

```
gpgme-config --print-lang
```

or test for the availability using

```
gpgme-config --have-lang=python && echo 'Bindings for Pythons available'
```


2.3 Largefile Support (LFS)

GPGME is compiled with largefile support by default, if it is available on the system. This means that GPGME supports files larger than two gigabyte in size, if the underlying operating system can. On some systems, largefile support is already the default. On such systems,
nothing special is required. However, some systems provide only support for files up to two gigabyte in size by default. Support for larger file sizes has to be specifically enabled.

To make a difficult situation even more complex, such systems provide two different types of largefile support. You can either get all relevant functions replaced with alternatives that are largefile capable, or you can get new functions and data types for largefile support added. Those new functions have the same name as their smallfile counterparts, but with a suffix of 64.

An example: The data type off_t is 32 bit wide on GNU/Linux PC systems. To address offsets in large files, you can either enable largefile support add-on. Then a new data type off64_t is provided, which is 64 bit wide. Or you can replace the existing off_t data type with its 64 bit wide counterpart. All occurrences of off_t are then automagically replaced.

As if matters were not complex enough, there are also two different types of file descriptors in such systems. This is important because if file descriptors are exchanged between programs that use a different maximum file size, certain errors must be produced on some file descriptors to prevent subtle overflow bugs from occurring.

As you can see, supporting two different maximum file sizes at the same time is not at all an easy task. However, the maximum file size does matter for GPGME, because some data types it uses in its interfaces are affected by that. For example, the off_t data type is used in the gpgme_data_seek function, to match its POSIX counterpart. This affects the call-frame of the function, and thus the ABI of the library. Furthermore, file descriptors can be exchanged between GPGME and the application.

For you as the user of the library, this means that your program must be compiled in the same file size mode as the library. Luckily, there is absolutely no valid reason for new programs to not enable largefile support by default and just use that. The compatibility modes (small file sizes or dual mode) can be considered an historic artefact, only useful to allow for a transitional period.

On POSIX platforms GPGME is compiled using largefile support by default. This means that your application must do the same, at least as far as it is relevant for using the gpgme.h header file. All types in this header files refer to their largefile counterparts, if they are different from any default types on the system.

On 32 and 64 bit Windows platforms off_t is declared as 32 bit signed integer. There is no specific support for LFS in the C library.
The recommendation from Microsoft is to use the native interface (CreateFile et al.) for large files. Released binary versions of GPGME (libgpgme-11.dll) have always been build with a 32 bit off_t. To avoid an ABI break we stick to this convention for 32 bit Windows by using long there. GPGME versions for 64 bit Windows have never been released and thus we are able to use int64_t instead of off_t there. For easier migration the typedef gpgme_off_t has been defined. The reason we cannot use off_t directly is that some toolchains (e.g. mingw64) introduce a POSIX compatible hack for off_t. Some widely used toolkits make use of this hack and in turn GPGME would need to use it also. However, this would introduce an ABI break and existing software making use of libgpgme might suffer from a severe break. Thus with version 1.4.2 we redefined all functions using off_t to use gpgme_off_t which is defined as explained above. This way we keep the ABI well defined and independent of any toolchain hacks. The bottom line is that LFS support in GPGME is only available on 64 bit versions of Windows.

On POSIX platforms you can enable largefile support, if it is different from the default on the system the application is compiled on, by using the Autoconf macro AC_SYS_LARGEFILE. If you do this, then you dont need to worry about anything else: It will just work. In this case you might also want to use AC_FUNC_FSEEKO to take advantage of some new interfaces, and AC_TYPE_OFF_T (just in case).

If you do not use Autoconf, you can define the preprocessor symbol __FILE_OFFSET_BITS to 64 _before__ including any header files, for example by specifying the option -D_FILE_OFFSET_BITS=64 on the compiler command line. You will also want to define the preprocessor symbol LARGEFILE_SOURCE to 1 in this case, to take advantage of some new interfaces.

If you do not want to do either of the above, you probably know enough about the issue to invent your own solution. Just keep in mind that the GPGME header file expects that largefile support is enabled, if it is available. In particular, we do not support dual mode (_LARGEFILE64_SOURCE).


2.4 Using Automake

It is much easier if you use GNU Automake instead of writing your own Makefiles. If you do that you do not have to worry about finding and invoking the gpgme-config script at all. GPGME provides an extension to Automake that does all the work for you.
-- Macro: AM_PATH_GPGME ([MINIMUM-VERSION], [ACTION-IF-FOUND],
[ACTION-IF-NOT-FOUND])

-- Macro: AM_PATH_GPGME_PTH ([MINIMUM-VERSION], [ACTION-IF-FOUND],
[ACTION-IF-NOT-FOUND])

-- Macro: AM_PATH_GPGME_PTHREAD ([MINIMUM-VERSION], [ACTION-IF-FOUND],
[ACTION-IF-NOT-FOUND])

Check whether GPGME (at least version MINIMUM-VERSION, if given)
exists on the host system. If it is found, execute
ACTION-IF-FOUND, otherwise do ACTION-IF-NOT-FOUND, if given.

Additionally, the function defines GPGME_CFLAGS to the flags
needed for compilation of the program to find the gpgme.h header
file, and GPGME_LIBS to the linker flags needed to link the
program to the GPGME library. If the used helper script does not
match the target type you are building for a warning is printed and
the string libgcrypt is appended to the variable
gpg_config_script_warn.

AM_PATH_GPGME_PTH checks for the version of GPGME that can be
used with GNU Pth, and defines GPGME_PTH_CFLAGS and
GPGME_PTH_LIBS.

AM_PATH_GPGME_PTHREAD checks for the version of GPGME that can be
used with the native pthread implementation, and defines
GPGME_PTHREAD_CFLAGS and GPGME_PTHREAD_LIBS. Since version
1.8.0 this is no longer required to GPGME_PTHREAD as GPGME itself
is thread safe.

This macro searches for gpgme-config along the PATH. If you are
cross-compiling, it is useful to set the environment variable
SYSROOT to the top directory of your target. The macro will then
first look for the helper program in the bin directory below that
top directory. An absolute directory name must be used for
SYSROOT. Finally, if the configure command line option
--with-gpgme-prefix is used, only its value is used for the top
directory below which the helper script is expected.

You can use the defined Autoconf variables like this in your
Makefile.am:

AM_CPPFLAGS = $(GPGME_CFLAGS)
LDADD = $(GPGME_LIBS)


2.5 Using Libtool
The easiest way is to just use GNU Libtool. If you use libtool, and link to libgpgme.la, libgpgme-pth.la or libgpgme-pthread.la respectively, everything will be done automatically by Libtool.

2.6 Library Version Check

-- Function: const char * gpgme_check_version
   (const char *REQUIRED_VERSION)

The function gpgme_check_version has four purposes. It can be used to retrieve the version number of the library. In addition it can verify that the version number is higher than a certain required version number. In either case, the function initializes some sub-systems, and for this reason alone it must be invoked early in your program, before you make use of the other functions in GPGME. The last purpose is to run selftests.

As a side effect for W32 based systems, the socket layer will get initialized.

If REQUIRED_VERSION is NULL, the function returns a pointer to a statically allocated string containing the version number of the library.

If REQUIRED_VERSION is not NULL, it should point to a string containing a version number, and the function checks that the version of the library is at least as high as the version number provided. In this case, the function returns a pointer to a statically allocated string containing the version number of the library. If REQUIRED_VERSION is not a valid version number, or if the version requirement is not met, the function returns NULL.

If you use a version of a library that is backwards compatible with older releases, but contains additional interfaces which your program uses, this function provides a run-time check if the necessary features are provided by the installed version of the library.

If a selftest fails, the function may still succeed. Selftest errors are returned later when invoking gpgme_new or gpgme-data_new, so that a detailed error code can be returned (historically, gpgme_check_version does not return a detailed error code).
Function: int gpgme_set_global_flag (const char *NAME,
    const char *VALUE)

SINCE: 1.4.0

On some systems it is not easy to set environment variables and
thus hard to use GPGME's internal trace facility for debugging.
This function has been introduced as an alternative way to enable
debugging and for a couple of other rarely used tweaks. It is
important to assure that only one thread accesses GPGME functions
between a call to this function and after the return from the call
to gpgme_check_version.

All currently supported features require that this function is
called as early as possible even before gpgme_check_version.
The features are identified by the following values for NAME:

debug
   To enable debugging use the string debug for NAME and VALUE
   identical to the value used with the environment variable
   GPGME_DEBUG.

disable-gpgconf
   Using this feature with any VALUE disables the detection of
   the gpgconf program and thus forces GPGME to fallback into the
   simple OpenPGP only mode. It may be used to force the use of
   GnuPG-1 on systems which have both GPG versions installed.
   Note that in general the use of gpgme_set_engine_info is a
   better way to select a specific engine version.

gpgconf-name

gpg-name
   Set the name of the gpgconf respective gpg binary. The
defaults are GNU/GnuPG/gpgconf and GNU/GnuPG/gpg. Under
Unix the leading directory part is ignored. Under Windows the
leading directory part is used as the default installation
directory; the .exe suffix is added by GPGME. Use forward
slashed even under Windows.

require-gnupg
   Set the minimum version of the required GnuPG engine. If that
version is not met, GPGME fails early instead of trying to use
the existent version. The given version must be a string with
major, minor, and micro number. Example: "2.1.0".

w32-inst-dir
   On Windows GPGME needs to know its installation directory to
find its spawn helper. This is in general no problem because a DLL has this information. Some applications however link statically to GPGME and thus GPGME can only figure out the installation directory of this application which may be wrong in certain cases. By supplying an installation directory as value to this flag, GPGME will assume that that directory is the installation directory. This flag has no effect on non-Windows platforms.

This function returns 0 on success. In contrast to other functions the non-zero return value on failure does not convey any error code. For setting debug the only possible error cause is an out of memory condition; which would exhibit itself later anyway. Thus the return value may be ignored.

After initializing GPGME, you should set the locale information to the locale required for your output terminal. This locale information is needed for example for the curses and Gtk pinentry. Here is an example of a complete initialization:

```c
#include <locale.h>
#include <gpgme.h>

void
init_gpgme (void)
{
  /* Initialize the locale environment. */
  setlocale (LC_ALL, "");
  gpgme_check_version (NULL);
  gpgme_set_locale (NULL, LC_CTYPE, setlocale (LC_CTYPE, NULL));
  #ifdef LC_MESSAGES
  gpgme_set_locale (NULL, LC_MESSAGES, setlocale (LC_MESSAGES, NULL));
  #endif
}
```

Note that you are highly recommended to initialize the locale settings like this. GPGME can not do this for you because it would not be thread safe. The conditional on LC_MESSAGES is only necessary for portability to W32 systems.


2.7 Signal Handling

The GPGME library communicates with child processes (the crypto engines). If a child process dies unexpectedly, for example due to a
bug, or system problem, a SIGPIPE signal will be delivered to the application. The default action is to abort the program. To protect against this, gpgme_check_version sets the SIGPIPE signal action to SIG_IGN, which means that the signal will be ignored.

GPGME will only do that if the signal action for SIGPIPE is SIG_DEF at the time gpgme_check_version is called. If it is something different, GPGME will take no action.

This means that if your application does not install any signal handler for SIGPIPE, you don't need to take any precautions. If you do install a signal handler for SIGPIPE, you must be prepared to handle any SIGPIPE events that occur due to GPGME writing to a defunct pipe. Furthermore, if your application is multi-threaded, and you install a signal action for SIGPIPE, you must make sure you do this either before gpgme_check_version is called or afterwards.


2.8 Multi-Threading

The GPGME library is mostly thread-safe, and can be used in a multi-threaded environment but there are some requirements for multi-threaded use:

The function gpgme_check_version must be called before any other function in the library, because it initializes the thread support subsystem in GPGME. To achieve this in multi-threaded programs, you must synchronize the memory with respect to other threads that also want to use GPGME. For this, it is sufficient to call gpgme_check_version before creating the other threads using GPGME(1).

Any gpgme_data_t and gpgme_ctx_t object must only be accessed by one thread at a time. If multiple threads want to deal with the same object, the caller has to make sure that operations on that object are fully synchronized.

Only one thread at any time is allowed to call gpgme_wait. If multiple threads call this function, the caller must make sure that all invocations are fully synchronized. It is safe to start asynchronous operations while a thread is running in gpgme_wait.

The function gpgme_strerror is not thread safe. You have to use gpgme_strerror_r instead.
(1) At least this is true for POSIX threads, as pthread_create is a function that synchronizes memory with respects to other threads. There are many functions which have this property, a complete list can be found in POSIX, IEEE Std 1003.1-2003, Base Definitions, Issue 6, in the definition of the term Memory Synchronization. For other thread packages other, more relaxed or more strict rules may apply.

--- Footnotes ---


3 Protocols and Engines

GPGME supports several cryptographic protocols, however, it does not implement them. Rather it uses backends (also called engines) which implement the protocol. GPGME uses inter-process communication to pass data back and forth between the application and the backend, but the details of the communication protocol and invocation of the backend is completely hidden by the interface. All complexity is handled by GPGME. Where an exchange of information between the application and the backend is necessary, GPGME provides the necessary callback function hooks and further interfaces.

-- Data type: enum gpgme_protocol_t

The gpgme_protocol_t type specifies the set of possible protocol values that are supported by GPGME. The following protocols are supported:

GPGME_PROTOCOL_OpenPGP
GPGME_PROTOCOL_OPENPGP
   This specifies the OpenPGP protocol.

GPGME_PROTOCOL_CMS
   This specifies the Cryptographic Message Syntax.

GPGME_PROTOCOL_GPGCONF
   Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_ASSUAN
   SINCE: 1.2.0
   This specifies the raw Assuan protocol.

GPGME_PROTOCOL_G13
   SINCE: 1.3.0
Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_UISERVER
Under development. Please ask on <gnupg-devel@gnupg.org> for help.

GPGME_PROTOCOL_SPAWN
SINCE: 1.5.0

Special protocol for use with gpgme_op_spawn.

GPGME_PROTOCOL_UNKNOWN
Reserved for future extension. You may use this to indicate that the used protocol is not known to the application. Currently, GPGME does not accept this value in any operation, though, except for gpgme_get_protocol_name.

-- Function: const char * gpgme_get_protocol_name
   (gpgme_protocol_t PROTOCOL)
   The function gpgme_get_protocol_name returns a statically
   allocated string describing the protocol PROTOCOL, or NULL if the
   protocol number is not valid.

* Menu:

* Engine Version Check::       Verifying the engine version.
* Engine Information::         Obtaining more information about the engines.
* Engine Configuration::       Changing the engine configuration.
* OpenPGP::                   Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.
* Assuan::                    Support for the raw Assuan protocol.


3.1 Engine Version Check
========================

-- Function: const char * gpgme_get_dirinfo (cons char *WHAT)
   SINCE: 1.5.0

   The function gpgme_get_dirinfo returns a statically allocated
   string with the value associated to WHAT. The returned values are
   the defaults and wont change even after gpgme_set_engine_info
   has been used to configure a different engine. NULL is returned
   if no value is available. Commonly supported values for WHAT are:
homedir
    Return the default home directory.

syconfdir
    Return the name of the system configuration directory

bindir
    Return the name of the directory with GnuPG program files.

libdir
    Return the name of the directory with GnuPG related library files.

libexecdir
    Return the name of the directory with GnuPG helper program files.

data dir
    Return the name of the directory with GnuPG shared data.

localedir
    Return the name of the directory with GnuPG locale data.

agent-socket
    Return the name of the socket to connect to the gpg-agent.

agent-ssh-socket
    Return the name of the socket to connect to the ssh-agent component of gpg-agent.

dirmngr-socket
    Return the name of the socket to connect to the dirmngr.

uiserver-socket
    Return the name of the socket to connect to the user interface server.

gpgconf-name
    Return the file name of the engine configuration tool.

gpg-name
    Return the file name of the OpenPGP engine.

gpgsm-name
    Return the file name of the CMS engine.

g13-name
Return the name of the file container encryption engine.

gpg-wks-client-name
Return the name of the Web Key Service tool.

-- Function: gpgme_error_t gpgme_engine_check_version
(gpgme_protocol_t PROTOCOL)
The function gpgme_engine_check_version verifies that the engine
implementing the protocol PROTOCOL is installed in the expected
path and meets the version requirement of GPGME.

This function returns the error code GPG_ERR_NO_ERROR if the
engine is available and GPG_ERR_INV_ENGINE if it is not.


3.2 Engine Information
=========================

-- Data type: gpgme_engine_info_t
The gpgme_engine_info_t type specifies a pointer to a structure
describing a crypto engine. The structure contains the following
elements:

gpgme_engine_info_t next
This is a pointer to the next engine info structure in the
linked list, or NULL if this is the last element.

gpgme_protocol_t protocol
This is the protocol for which the crypto engine is used. You
can convert this to a string with gpgme_get_protocol_name
for printing.

const char *file_name
This is a string holding the file name of the executable of
the crypto engine. Currently, it is never NULL, but using
NULL is reserved for future use, so always check before you
use it.

const char *home_dir
This is a string holding the directory name of the crypto
engines configuration directory. If it is NULL, then the
default directory is used. See gpgme_get_dirinfo on how to
get the default directory.

const char *version
This is a string containing the version number of the crypto engine. It might be NULL if the version number cannot be determined, for example because the executable doesn't exist or is invalid.

```
const char *req_version
```

This is a string containing the minimum required version number of the crypto engine for GPGME to work correctly. This is the version number that gpgme_engine_check_version verifies against. Currently, it is never NULL, but using NULL is reserved for future use, so always check before you use it.

-- Function: gpgme_error_t gpgme_get_engine_info
   (gpgme_engine_info_t *INFO)

The function gpgme_get_engine_info returns a linked list of engine info structures in INFO. Each info structure describes the defaults of one configured backend.

The memory for the info structures is allocated the first time this function is invoked, and must not be freed by the caller.

This function returns the error code GPG_ERR_NO_ERROR if successful, and a system error if the memory could not be allocated.

Here is an example how you can provide more diagnostics if you receive an error message which indicates that the crypto engine is invalid.

```
gpgme_engine_info_t info;
gpgme_get_engine_info (&info);
```

if (gpgme_err_code (err) == GPG_ERR_INV_ENGINE)
{
    while (info && info->protocol != gpgme_get_protocol (ctx))
        info = info->next;
    if (!info)
        fprintf (stderr, "GPGME compiled without support for protocol %s",
            gpgme_get_protocol_name (info->protocol));
    else if (info->file_name && !info->version)
        fprintf (stderr, "Engine %s not installed properly",
            info->file_name);
info->file_name);
else if (info->file_name && info->version && info->req_version)
    fprintf (stderr, "Engine %s version %s installed, ",
             "but at least version %s required", info->file_name,
             info->version, info->req_version);
else
    fprintf (stderr, "Unknown problem with engine for protocol %s",
            gpgme_get_protocol_name (info->protocol));
}
}


3.3 Engine Configuration
========================

You can change the configuration of a backend engine, and thus change
the executable program and configuration directory to be used. You can
make these changes the default or set them for some contexts
individually.

-- Function: gpgme_error_t gpgme_set_engine_info
    (gpgme_protocol_t PROTO, const char *FILE_NAME,
     const char *HOME_DIR)
SINCE: 1.1.0

The function gpgme_set_engine_info changes the default
configuration of the crypto engine implementing the protocol PROTO.

FILE_NAME is the file name of the executable program implementing
this protocol, and HOME_DIR is the directory name of the
configuration directory for this crypto engine. If HOME_DIR is
NULL, the engines default will be used.

The new defaults are not applied to already created GPGME contexts.

This function returns the error code GPG_ERR_NO_ERROR if
successful, or an error code on failure.

The functions gpgme_ctx_get_engine_info and
gpgme_ctx_set_engine_info can be used to change the engine
configuration per context. *Note Crypto Engine:::
3.4 OpenPGP
==========

OpenPGP is implemented by GnuPG, the GNU Privacy Guard. This is the first protocol that was supported by GPGME.

The OpenPGP protocol is specified by GPGME_PROTOCOL_OpenPGP.


3.5 Cryptographic Message Syntax
================================

CMS is implemented by GpgSM, the S/MIME implementation for GnuPG.

The CMS protocol is specified by GPGME_PROTOCOL_CMS.


3.6 Assuan
==========

Assuan is the RPC library used by the various GnuPG components. The Assuan protocol allows one to talk to arbitrary Assuan servers using GPGME. *Note Using the Assuan protocol:*

The ASSUAN protocol is specified by GPGME_PROTOCOL_ASSUAN.


4 Algorithms
************

The crypto backends support a variety of algorithms used in public key cryptography.(1) The following sections list the identifiers used to denote such an algorithm.

* Menu:

* Public Key Algorithms: A list of all public key algorithms.
* Hash Algorithms: A list of all hash algorithms.

--------- Footnotes ---------
(1) Some engines also provide symmetric only encryption; see the description of the encryption function on how to use this.


4.1 Public Key Algorithms

Public key algorithms are used for encryption, decryption, signing and verification of signatures.

-- Data type: enum gpgme_pubkey_algo_t
   The gpgme_pubkey_algo_t type specifies the set of all public key algorithms that are supported by GPGME. Possible values are:

GPGME_PK_RSA
   This value indicates the RSA (Rivest, Shamir, Adleman) algorithm.

GPGME_PK_RSA_E
   Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for encryption and decryption only.

GPGME_PK_RSA_S
   Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for signing and verification only.

GPGME_PK_DSA
   This value indicates DSA, the Digital Signature Algorithm.

GPGME_PK_ELG
   This value indicates ElGamal.

GPGME_PK_ELG_E
   This value also indicates ElGamal and is used specifically in GnuPG.

GPGME_PK_ECC
   SINCE: 1.5.0

   This value is a generic indicator for elliptic curve algorithms.

GPGME_PK_ECDSA
   SINCE: 1.3.0
This value indicates ECDSA, the Elliptic Curve Digital Signature Algorithm as defined by FIPS 186-2 and RFC-6637.

GPGME_PK_ECDH
             SINCE: 1.3.0

This value indicates ECDH, the Elliptic Curve Diffie-Hellmann encryption algorithm as defined by RFC-6637.

GPGME_PK_EDDSA
             SINCE: 1.7.0

This value indicates the EdDSA algorithm.

-- Function: const char * gpgme_pubkey_algo_name
            (gpgme_pubkey_algo_t ALGO)
The function gpgme_pubkey_algo_name returns a pointer to a statically allocated string containing a description of the public key algorithm ALGO. This string can be used to output the name of the public key algorithm to the user.

If ALGO is not a valid public key algorithm, NULL is returned.

-- Function: char * gpgme_pubkey_algo_string (gpgme_subkey_t KEY)
             SINCE: 1.7.0
The function gpgme_pubkey_algo_string is a convenience function to build and return an algorithm string in the same way GnuPG does (e.g. rsa2048 or ed25519). The caller must free the result using gpgme_free. On error (e.g. invalid argument or memory exhausted), the function returns NULL and sets ERRNO.


4.2 Hash Algorithms

Hash (message digest) algorithms are used to compress a long message to make it suitable for public key cryptography.

-- Data type: enum gpgme_hash_algo_t
The gpgme_hash_algo_t type specifies the set of all hash algorithms that are supported by GPGME. Possible values are:

GPGME_MD_MD5
GPGME_MD_SHA1
GPGME_MD_RMD160
GPGME_MD_MD2  
GPGME_MD_TIGER  
GPGME_MD_HAVAL  
GPGME_MD_SHA256  
GPGME_MD_SHA384  
GPGME_MD_SHA512  
GPGME_MD_SHA224  
SINCE: 1.5.0

GPGME_MD_MD4  
GPGME_MD_CRC32  
GPGME_MD_CRC32_RFC1510  
GPGME_MD_CRC24_RFC2440

-- Function: const char * gpgme_hash_algo_name (gpgme_hash_algo_t ALGO)

The function gpgme_hash_algo_name returns a pointer to a
statically allocated string containing a description of the hash
algorithm ALGO. This string can be used to output the name of the
hash algorithm to the user.

If ALGO is not a valid hash algorithm, NULL is returned.


5 Error Handling

****************

Many functions in GPGME can return an error if they fail. For this
reason, the application should always catch the error condition and take
appropriate measures, for example by releasing the resources and passing
the error up to the caller, or by displaying a descriptive message to
the user and cancelling the operation.

Some error values do not indicate a system error or an error in the
operation, but the result of an operation that failed properly. For
example, if you try to decrypt a tempered message, the decryption will
fail. Another error value actually means that the end of a data buffer
or list has been reached. The following descriptions explain for many
error codes what they mean usually. Some error values have specific
meanings if returned by a certain functions. Such cases are described
in the documentation of those functions.

GPGME uses the libgpg-error library. This allows to share the
error codes with other components of the GnuPG system, and thus pass
error values transparently from the crypto engine, or some helper
application of the crypto engine, to the user. This way no information
is lost. As a consequence, GPGME does not use its own identifiers for
error codes, but uses those provided by libgpg-error. They usually start with GPG_ERR_.

However, GPGME does provide aliases for the functions defined in libgpg-error, which might be preferred for name space consistency.

* Menu:

* Error Values:: The error value and what it means.
* Error Sources:: A list of important error sources.
* Error Codes:: A list of important error codes.
* Error Strings:: How to get a descriptive string from a value.

File: gpgme.info, Node: Error Values, Next: Error Sources, Up: Error Handling

5.1 Error Values

================

-- Data type: gpgme_err_code_t
    The gpgme_err_code_t type is an alias for the libgpg-error type gpg_err_code_t. The error code indicates the type of an error, or the reason why an operation failed.

    A list of important error codes can be found in the next section.

-- Data type: gpgme_err_source_t
    The gpgme_err_source_t type is an alias for the libgpg-error type gpg_err_source_t. The error source has not a precisely defined meaning. Sometimes it is the place where the error happened, sometimes it is the place where an error was encoded into an error value. Usually the error source will give an indication to where to look for the problem. This is not always true, but it is attempted to achieve this goal.

    A list of important error sources can be found in the next section.

-- Data type: gpgme_error_t
    The gpgme_error_t type is an alias for the libgpg-error type gpg_error_t. An error value like this has always two components, an error code and an error source. Both together form the error value.

    Thus, the error value can not be directly compared against an error code, but the accessor functions described below must be used. However, it is guaranteed that only 0 is used to indicate success (GPG_ERR_NO_ERROR), and that in this case all other parts of the error value are set to 0, too.
Note that in GPGME, the error source is used purely for
diagnostical purposes. Only the error code should be checked to
test for a certain outcome of a function. The manual only
documents the error code part of an error value. The error source
is left unspecified and might be anything.

-- Function: static inline gpgme_err_code_t gpgme_err_code
   (gpgme_error_t ERR)
The static inline function gpgme_err_code returns the
gpgme_err_code_t component of the error value ERR. This function
must be used to extract the error code from an error value in order
to compare it with the GPG_ERR_* error code macros.

-- Function: static inline gpgme_err_source_t gpgme_err_source
   (gpgme_error_t ERR)
The static inline function gpgme_err_source returns the
gpgme_err_source_t component of the error value ERR. This
function must be used to extract the error source from an error
value in order to compare it with the GPG_ERR_SOURCE_* error
source macros.

-- Function: static inline gpgme_error_t gpgme_err_make
   (gpgme_err_source_t SOURCE, gpgme_err_code_t CODE)
The static inline function gpgme_err_make returns the error value
consisting of the error source SOURCE and the error code CODE.

This function can be used in callback functions to construct an
error value to return it to the library.

-- Function: static inline gpgme_error_t gpgme_error
   (gpgme_err_code_t CODE)
The static inline function gpgme_error returns the error value
consisting of the default error source and the error code CODE.

For GPGME applications, the default error source is
GPG_ERR_SOURCE_USER_1. You can define GPGME_ERR_SOURCE_DEFAULT
before including gpgme.h to change this default.

This function can be used in callback functions to construct an
error value to return it to the library.

The libgpg-error library provides error codes for all system error
numbers it knows about. If ERR is an unknown error number, the error
code GPG_ERR_UNKNOWN_ERRNO is used. The following functions can be
used to construct error values from system error numbers.

-- Function: gpgme_error_t gpgme_err_make_from_errno
The function gpgme_err_make_from_errno is like gpgme_err_make, but it takes a system error like errno instead of a gpgme_err_code_t error code.

-- Function: gpgme_error_t gpgme_error_from_errno (int ERR)
The function gpgme_error_from_errno is like gpgme_error, but it takes a system error like errno instead of a gpgme_err_code_t error code.

Sometimes you might want to map system error numbers to error codes directly, or map an error code representing a system error back to the system error number. The following functions can be used to do that.

-- Function: gpgme_err_code_t gpgme_err_code_from_errno (int ERR)
The function gpgme_err_code_from_errno returns the error code for the system error ERR. If ERR is not a known system error, the function returns GPG_ERR_UNKNOWN_ERRNO.

-- Function: int gpgme_err_code_to_errno (gpgme_err_code_t ERR)
The function gpgme_err_code_to_errno returns the system error for the error code ERR. If ERR is not an error code representing a system error, or if this system error is not defined on this system, the function returns 0.

File: gpgme.info, Node: Error Sources, Next: Error Codes, Prev: Error Values, Up: Error Handling

5.2 Error Sources
=================

The library libgpg-error defines an error source for every component of the GnuPG system. The error source part of an error value is not well defined. As such it is mainly useful to improve the diagnostic error message for the user.

If the error code part of an error value is 0, the whole error value will be 0. In this case the error source part is of course GPG_ERR_SOURCE_UNKNOWN.

The list of error sources that might occur in applications using GPGME is:

GPG_ERR_SOURCE_UNKNOWN
The error source is not known. The value of this error source is 0.

GPG_ERR_SOURCE_GPGME
The error source is GPGME itself. This is the default for errors that occur in the GPGME library.

**GPG_ERR_SOURCE_GPG**
- The error source is GnuPG, which is the crypto engine used for the OpenPGP protocol.

**GPG_ERR_SOURCE_GPGSM**
- The error source is GPGSM, which is the crypto engine used for the CMS protocol.

**GPG_ERR_SOURCE_GCRYPT**
- The error source is libgcrypt, which is used by crypto engines to perform cryptographic operations.

**GPG_ERR_SOURCE_GPGAGENT**
- The error source is gpg-agent, which is used by crypto engines to perform operations with the secret key.

**GPG_ERR_SOURCE_PINENTRY**
- The error source is pinentry, which is used by gpg-agent to query the passphrase to unlock a secret key.

**GPG_ERR_SOURCE_SCD**
- The error source is the SmartCard Daemon, which is used by gpg-agent to delegate operations with the secret key to a SmartCard.

**GPG_ERR_SOURCE_KEYBOX**
- The error source is libkbx, a library used by the crypto engines to manage local keyrings.

**GPG_ERR_SOURCE_USER_1**
**GPG_ERR_SOURCE_USER_2**
**GPG_ERR_SOURCE_USER_3**
**GPG_ERR_SOURCE_USER_4**
- These error sources are not used by any GnuPG component and can be used by other software. For example, applications using GPGME can use them to mark error values coming from callback handlers. Thus GPG_ERR_SOURCE_USER_1 is the default for errors created with gpgme_error and gpgme_error_from_errno, unless you define GPGME_ERR_SOURCE_DEFAULT before including gpgme.h.

File: gpgme.info, Node: Error Codes, Next: Error Strings, Prev: Error Sources, Up: Error Handling

5.3 Error Codes

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 11525
The library libgpg-error defines many error values. Most of them are not used by GPGME directly, but might be returned by GPGME because it received them from the crypto engine. The below list only includes such error codes that have a specific meaning in GPGME, or which are so common that you should know about them.

**GPG_ERR_EOF**
This value indicates the end of a list, buffer or file.

**GPG_ERR_NO_ERROR**
This value indicates success. The value of this error code is 0. Also, it is guaranteed that an error value made from the error code 0 will be 0 itself (as a whole). This means that the error source information is lost for this error code, however, as this error code indicates that no error occurred, this is generally not a problem.

**GPG_ERR_GENERAL**
This value means that something went wrong, but either there is not enough information about the problem to return a more useful error value, or there is no separate error value for this type of problem.

**GPG_ERR_ENOMEM**
This value means that an out-of-memory condition occurred.

**GPG_ERR_E...**
System errors are mapped to GPG_ERR_FOO where FOO is the symbol for the system error.

**GPG_ERR_INV_VALUE**
This value means that some user provided data was out of range. This can also refer to objects. For example, if an empty gpgme_data_t object was expected, but one containing data was provided, this error value is returned.

**GPG_ERR_UNUSABLE_PUBKEY**
This value means that some recipients for a message were invalid.

**GPG_ERR_UNUSABLE_SECKEY**
This value means that some signers were invalid.

**GPG_ERR_NO_DATA**
This value means that a gpgme_data_t object which was expected to have content was found empty.

**GPG_ERR_CONFLICT**
This value means that a conflict of some sort occurred.

GPG_ERR_NOT_IMPLEMENTED
This value indicates that the specific function (or operation) is not implemented. This error should never happen. It can only occur if you use certain values or configuration options which do not work, but for which we think that they should work at some later time.

GPG_ERR_DECRYPT_FAILED
This value indicates that a decryption operation was unsuccessful.

GPG_ERR_BAD_PASSPHRASE
This value means that the user did not provide a correct passphrase when requested.

GPG_ERR_CANCELED
This value means that the operation was canceled.

GPG_ERR_INV_ENGINE
This value means that the engine that implements the desired protocol is currently not available. This can either be because the sources were configured to exclude support for this engine, or because the engine is not installed properly.

GPG_ERR_AMBIGUOUS_NAME
This value indicates that a user ID or other specifier did not specify a unique key.

GPG_ERR_WRONG_KEY_USAGE
This value indicates that a key is not used appropriately.

GPG_ERR_CERT_REVOKED
This value indicates that a key signature was revoked.

GPG_ERR_CERT_EXPIRED
This value indicates that a key signature expired.

GPG_ERR_NO_CRL_KNOWN
This value indicates that no certificate revocation list is known for the certificate.

GPG_ERR_NO_POLICY_MATCH
This value indicates that a policy issue occurred.

GPG_ERR_NO_SECKEY
This value indicates that no secret key for the user ID is available.
GPG_ERR_MISSING_CERT
This value indicates that a key could not be imported because the issuer certificate is missing.

GPG_ERR_BAD_CERT_CHAIN
This value indicates that a key could not be imported because its certificate chain is not good, for example it could be too long.

GPG_ERR_UNSUPPORTED_ALGORITHM
This value means a verification failed because the cryptographic algorithm is not supported by the crypto backend.

GPG_ERR_BAD_SIGNATURE
This value means a verification failed because the signature is bad.

GPG_ERR_NO_PUBKEY
This value means a verification failed because the public key is not available.

GPG_ERR_USER_1
GPG_ERR_USER_2
...
GPG_ERR_USER_16
These error codes are not used by any GnuPG component and can be freely used by other software. Applications using GPGME might use them to mark specific errors returned by callback handlers if no suitable error codes (including the system errors) for these errors exist already.

File: gpgme.info, Node: Error Strings, Prev: Error Codes, Up: Error Handling

5.4 Error Strings
==============

-- Function: const char * gpgme_strerror (gpgme_error_t ERR)
The function gpgme_strerror returns a pointer to a statically allocated string containing a description of the error code contained in the error value ERR. This string can be used to output a diagnostic message to the user.

This function is not thread safe. Use gpgme_strerror_r in multi-threaded programs.

-- Function: int gpgme_strerror_r (gpgme_error_t ERR, char *BUF, size_t BUFLEN)
The function gpgme_strerror_r returns the error string for ERR in the user-supplied buffer BUF of size BUFLEN. This function is, in contrast to gpgme_strerror, thread-safe if a thread-safe strerror_r function is provided by the system. If the function succeeds, 0 is returned and BUF contains the string describing the error. If the buffer was not large enough, ERANGE is returned and BUF contains as much of the beginning of the error string as fits into the buffer.

-- Function: const char * gpgme_strsource (gpgme_error_t ERR)

The function gpgme_strsource returns a pointer to a statically allocated string containing a description of the error source contained in the error value ERR. This string can be used to output a diagnostic message to the user.

The following example illustrates the use of gpgme_strerror:

```c

gpgme_ctx_t ctx;
gpgme_error_t err = gpgme_new (&ctx);
if (err)
{
    fprintf (stderr, "%s: creating GpgME context failed: %s: %s\n", 
              argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
}
```

File: gpgme.info, Node: Exchanging Data, Next: Contexts, Prev: Error Handling, Up: Top

6 Exchanging Data

***************

A lot of data has to be exchanged between the user and the crypto engine, like plaintext messages, ciphertext, signatures and information about the keys. The technical details about exchanging the data information are completely abstracted by GPGME. The user provides and receives the data via gpgme_data_t objects, regardless of the communication protocol between GPGME and the crypto engine in use.

-- Data type: gpgme_data_t

The gpgme_data_t type is a handle for a container for generic data, which is used by GPGME to exchange data with the user.

gpgme_data_t objects do not provide notifications on events. It is assumed that read and write operations are blocking until data is available. If this is undesirable, the application must ensure that all GPGME data operations always have data available, for example by using memory buffers or files rather than pipes or sockets. This might be
relevant, for example, if the external event loop mechanism is used.

-- Data type: gpgme_off_t
   SINCE: 1.4.1

   On POSIX platforms the gpgme_off_t type is an alias for off_t; it may be used interchangeable. On Windows platforms gpgme_off_t is defined as a long (i.e. 32 bit) for 32 bit Windows and as a 64 bit signed integer for 64 bit Windows.

-- Data type: gpgme_ssize_t
   The gpgme_ssize_t type is an alias for ssize_t. It has only been introduced to overcome portability problems pertaining to the declaration of ssize_t by different toolchains.

* Menu:

* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

File: gpgme.info, Node: Creating Data Buffers, Next: Destroying Data Buffers, Up: Exchanging Data

6.1 Creating Data Buffers

Data objects can be based on memory, files, or callback functions provided by the user. Not all operations are supported by all objects.

* Menu:

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

File: gpgme.info, Node: Memory Based Data Buffers, Next: File Based Data Buffers, Up: Creating Data Buffers

6.1.1 Memory Based Data Buffers

Memory based data objects store all data in allocated memory. This is convenient, but only practical for an amount of data that is a fraction of the available physical memory. The data has to be copied from its source and to its destination, which can often be avoided by using one of the other data object
-- Function: gpgme_error_t gpgme_data_new (gpgme_data_t *DH)
The function gpgme_data_new creates a new gpgme_data_t object and returns a handle for it in DH. The data object is memory based and initially empty.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_mem (gpgme_data_t *DH, const char *BUFFER, size_t SIZE, int COPY)
The function gpgme_data_new_from_mem creates a new gpgme_data_t object and fills it with SIZE bytes starting from BUFFER.

If COPY is not zero, a private copy of the data is made. If COPY is zero, the data is taken from the specified buffer as needed, and the user has to ensure that the buffer remains valid for the whole life span of the data object.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or BUFFER is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_file (gpgme_data_t *DH, const char *FILENAME, int COPY)
The function gpgme_data_new_from_file creates a new gpgme_data_t object and fills it with the content of the file FILENAME.

If COPY is not zero, the whole file is read in at initialization time and the file is not used anymore after that. This is the only mode supported currently. Later, a value of zero for COPY might cause all reads to be delayed until the data is needed, but this is not yet implemented.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH or FILENAME is not a valid pointer, GPG_ERR_NOT_IMPLEMENTED if CODE is zero, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_filepart (gpgme_data_t *DH, const char *FILENAME, FILE *FP, off_t OFFSET, size_t LENGTH)
The function gpgme_data_new_from_filepart creates a new gpgme_data_t object and fills it with a part of the file specified by FILENAME or FP.
Exactly one of FILENAME and FP must be non-zero, the other must be zero. The argument that is not zero specifies the file from which LENGTH bytes are read into the data object, starting from OFFSET.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, GPG_ERR_INV_VALUE if DH and exactly one of FILENAME and FP is not a valid pointer, and GPG_ERR_ENOMEM if not enough memory is available.

File: gpgme.info, Node: File Based Data Buffers, Next: Callback Based Data Buffers, Prev: Memory Based Data Buffers, Up: Creating Data Buffers

6.1.2 File Based Data Buffers
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File based data objects operate directly on file descriptors or streams. Only a small amount of data is stored in core at any time, so the size of the data objects is not limited by GPGME.

-- Function: gpgme_error_t gpgme_data_new_from_fd (gpgme_data_t *DH, int FD)
The function gpgme_data_new_from_fd creates a new gpgme_data_t object and uses the file descriptor FD to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the file descriptor than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the file descriptor is set to blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_stream
 (gpgme_data_t *DH, FILE *STREAM)
The function gpgme_data_new_from_stream creates a new gpgme_data_t object and uses the I/O stream STREAM to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might
read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

-- Function: gpgme_error_t gpgme_data_new_from_estream
      (gpgme_data_t *DH, gpgrt_stream_t STREAM)
The function gpgme_data_new_from_estream creates a new gpgme_data_t object and uses the gpgrt stream STREAM to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code GPG_ERR_NO_ERROR if the data object was successfully created, and GPG_ERR_ENOMEM if not enough memory is available.

File: gpgme.info, Node: Callback Based Data Buffers, Prev: File Based Data Buffers, Up: Creating Data Buffers

6.1.3 Callback Based Data Buffers
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If neither memory nor file based data objects are a good fit for your application, you can implement the functions a data object provides yourself and create a data object from these callback functions.

-- Data type: ssize_t (*gpgme_data_read_cb_t) (void *HANDLE,
                         void *BUFFER, size_t SIZE)
The gpgme_data_read_cb_t type is the type of functions which GPGME calls if it wants to read data from a user-implemented data object. The function should read up to SIZE bytes from the current read position into the space starting at BUFFER. The HANDLE is
provided by the user at data object creation time.

Note that GPGME assumes that the read blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes read, 0 on EOF, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.

-- Data type: ssize_t (*gpgme_data_read_cb_t) (void *HANDLE, const void *BUFFER, size_t SIZE)
The gpgme_data_read_cb_t type is the type of functions which GPGME calls if it wants to read data from a user-implemented data object. The function should return up to SIZE bytes from the space starting at BUFFER. The HANDLE is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.

-- Data type: off_t (*gpgme_data_write_cb_t) (void *HANDLE, const void *BUFFER, size_t SIZE)
The gpgme_data_write_cb_t type is the type of functions which GPGME calls if it wants to write data to a user-implemented data object. The function should write up to SIZE bytes to the current write position from the space starting at BUFFER. The HANDLE is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.

-- Data type: off_t (*gpgme_data_seek_cb_t) (void *HANDLE, off_t OFFSET, int WHENCE)
The gpgme_data_seek_cb_t type is the type of functions which GPGME calls if it wants to change the current read/write position in a user-implemented data object, just like the lseek function.

The function should return the new read/write position, and -1 on error. If an error occurs, ERRNO should be set to describe the type of the error.

-- Data type: void (*gpgme_data_release_cb_t) (void *HANDLE)
The gpgme_data_release_cb_t type is the type of functions which GPGME calls if it wants to destroy a user-implemented data object. The HANDLE is provided by the user at data object creation time.

-- Data type: struct gpgme_data_cbs
This structure is used to store the data callback interface functions described above. It has the following members:

gpgme_data_read_cb_t read
This is the function called by GPGME to read data from the data object. It is only required for input data object.
gpgme_data_write_cb_t write
    This is the function called by GPGME to write data to the data
    object. It is only required for output data object.

gpgme_data_seek_cb_t seek
    This is the function called by GPGME to change the current
    read/write pointer in the data object (if available). It is
    optional.

gpgme_data_release_cb_t release
    This is the function called by GPGME to release a data object.
    It is optional.

-- Function: gpgme_error_t gpgme_data_new_from_cbs (gpgme_data_t *DH,
    gpgme_data_cbs_t CBS, void *HANDLE)
The function gpgme_data_new_from_cbs creates a new gpgme_data_t
object and uses the user-provided callback functions to operate on
the data object.

The handle HANDLE is passed as first argument to the callback
functions. This can be used to identify this data object.

The function returns the error code GPG_ERR_NO_ERROR if the data
object was successfully created, and GPG_ERR_ENOMEM if not enough
memory is available.

File: gpgme.info,  Node: Destroying Data Buffers,  Next: Manipulating Data Buffers,  Prev: Creating Data Buffers,
Up: Exchanging Data

6.2 Destroying Data Buffers
==========================

-- Function: void gpgme_data_release (gpgme_data_t DH)
    The function gpgme_data_release destroys the data object with the
    handle DH. It releases all associated resources that were not
    provided by the user in the first place.

-- Function: char * gpgme_data_release_and_get_mem (gpgme_data_t DH,
    size_t *LENGTH)
    The function gpgme_data_release_and_get_mem is like
    gpgme_data_release, except that it returns the data buffer and
    its length that was provided by the object.

    The user has to release the buffer with gpgme_free. In case the
    user provided the data buffer in non-copy mode, a copy will be made
    for this purpose.
In case an error returns, or there is no suitable data buffer that can be returned to the user, the function will return NULL. In any case, the data object DH is destroyed.

-- Function: void gpgme_free (void *BUFFER)
SINCE: 1.1.1

The function gpgme_free releases the memory returned by gpgme_data_release_and_get_mem and gpgme_pubkey_algo_string. It should be used instead of the system libraries free function in case different allocators are used by a program. This is often the case if gpgme is used under Windows as a DLL.

File: gpgme.info, Node: Manipulating Data Buffers, Prev: Destroying Data Buffers, Up: Exchanging Data

6.3 Manipulating Data Buffers
============================

Data buffers contain data and meta-data. The following operations can be used to manipulate both.

* Menu:

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

File: gpgme.info, Node: Data Buffer I/O Operations, Next: Data Buffer Meta-Data, Up: Manipulating Data Buffers

6.3.1 Data Buffer I/O Operations
--------------------------------

-- Function: ssize_t gpgme_data_read (gpgme_data_t DH, void *BUFFER, size_t LENGTH)
The function gpgme_data_read reads up to LENGTH bytes from the data object with the handle DH into the space starting at BUFFER.

If no error occurs, the actual amount read is returned. If the end of the data object is reached, the function returns 0.

In all other cases, the function returns -1 and sets ERRNO.

-- Function: ssize_t gpgme_data_write (gpgme_data_t DH, const void *BUFFER, size_t SIZE)
The function `gpgme_data_write` writes up to `SIZE` bytes starting from `BUFFER` into the data object with the handle `DH` at the current write position.

The function returns the number of bytes actually written, or -1 if an error occurs. If an error occurs, `ERRNO` is set.

Function: `off_t gpgme_data_seek (gpgme_data_t DH, off_t OFFSET, int WHENCE)`

The function `gpgme_data_seek` changes the current read/write position.

The `WHENCE` argument specifies how the `OFFSET` should be interpreted. It must be one of the following symbolic constants:

SEEK_SET
  Specifies that `OFFSET` is a count of characters from the beginning of the data object.

SEEK_CUR
  Specifies that `OFFSET` is a count of characters from the current file position. This count may be positive or negative.

SEEK_END
  Specifies that `OFFSET` is a count of characters from the end of the data object. A negative count specifies a position within the current extent of the data object; a positive count specifies a position past the current end. If you set the position past the current end, and actually write data, you will extend the data object with zeros up to that position.

If successful, the function returns the resulting file position, measured in bytes from the beginning of the data object. You can use this feature together with SEEK_CUR to read the current read/write position.

If the function fails, -1 is returned and `ERRNO` is set.

File: `gpgme.info`, Node: Data Buffer Meta-Data, Next: Data Buffer Convenience, Prev: Data Buffer I/O Operations, Up: Manipulating Data Buffers

6.3.2 Data Buffer Meta-Data

---------------------------

Function: `char * gpgme_data_get_file_name (gpgme_data_t DH)`

SINCE: 1.1.0
The function gpgme_data_get_file_name returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

If no error occurs, the string containing the file name is returned. Otherwise, NULL will be returned.

-- Function: gpgme_error_t gpgme_data_set_file_name (gpgme_data_t DH, const char *FILE_NAME)
SINCE: 1.1.0

The function gpgme_data_set_file_name sets the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

The function returns the error code GPG_ERR_INV_VALUE if DH is not a valid pointer and GPG_ERR_ENOMEM if not enough memory is available.

-- Data type: enum gpgme_data_encoding_t
The gpgme_data_encoding_t type specifies the encoding of a gpgme_data_t object. For input data objects, the encoding is useful to give the backend a hint on the type of data. For output data objects, the encoding can specify the output data format on certain operations. Please note that not all backends support all encodings on all operations. The following data types are available:

GPGME_DATA_ENCODING_NONE
This specifies that the encoding is not known. This is the default for a new data object. The backend will try its best to detect the encoding automatically.

GPGME_DATA_ENCODING_BINARY
This specifies that the data is encoding in binary form; i.e. there is no special encoding.

GPGME_DATA_ENCODING_BASE64
This specifies that the data is encoded using the Base-64 encoding scheme as used by MIME and other protocols.

GPGME_DATA_ENCODING_ARMOR
This specifies that the data is encoded in an armored form as used by OpenPGP and PEM.
GPGME_DATA_ENCODING_MIME
SINCE: 1.7.0

This specifies that the data is encoded as a MIME part.

GPGME_DATA_ENCODING_URL
SINCE: 1.2.0

The data is a list of linefeed delimited URLs. This is only useful with gpgme_op_import.

GPGME_DATA_ENCODING_URL0
SINCE: 1.2.0

The data is a list of binary zero delimited URLs. This is only useful with gpgme_op_import.

GPGME_DATA_ENCODING URLESC
SINCE: 1.2.0

The data is a list of linefeed delimited URLs with all control and space characters percent escaped. This mode is not yet implemented.

-- Function: gpgme_data_encoding_t gpgme_data_get_encoding
   (gpgme_data_t DH)
   The function gpgme_data_get_encoding returns the encoding of the data object with the handle DH. If DH is not a valid pointer (e.g. NULL) GPGME_DATA_ENCODING_NONE is returned.

-- Function: gpgme_error_t gpgme_data_set_encoding
   (gpgme_data_t DH, gpgme_data_encoding_t ENC)
   The function gpgme_data_set_encoding changes the encoding of the data object with the handle DH to ENC.

-- Function: gpgme_error_t gpgme_data_set_flag (gpgme_data_t DH,
   const char *NAME, const char *VALUE)

SINCE: 1.7.0

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for NAME:

size-hint
   The value is a decimal number with the length gpgme shall assume for this data object. This is useful if the data is
provided by callbacks or via file descriptors but the
applications knows the total size of the data. If this is set
the OpenPGP engine may use this to decide on buffer allocation
strategies and to provide a total value for its progress
information.

This function returns 0 on success.

File: gpgme.info, Node: Data Buffer Convenience, Prev: Data Buffer Meta-Data, Up: Manipulating Data Buffers

6.3.3 Data Buffer Convenience Functions
---------------------------------------

-- Data type: enum gpgme_data_type_t
    SINCE: 1.4.3

    The gpgme_data_type_t type is used to return the detected type of
    the content of a data buffer.

GPGME_DATA_TYPE_INVALID
    This is returned by gpgme_data_identify if it was not possible to
    identify the data. Reasons for this might be a non-seekable stream
    or a memory problem. The value is 0.

GPGME_DATA_TYPE_UNKNOWN
    The type of the data is not known.

GPGME_DATA_TYPE_PGP_SIGNED
    SINCE: 1.7.0
    The data is an OpenPGP signed message. This may be a binary
    signature, a detached one or a cleartext signature.

GPGME_DATA_TYPE_PGP_ENCRYPTED
    SINCE: 1.7.0
    The data is an OpenPGP encrypted message.

GPGME_DATA_TYPE_PGP_SIGNATURE
    SINCE: 1.7.0
    The data is an OpenPGP detached signature.

GPGME_DATA_TYPE_PGP_OTHER
    This is a generic OpenPGP message. In most cases this will be
    encrypted data.

GPGME_DATA_TYPE_PGP_KEY
    This is an OpenPGP key (private or public).

GPGME_DATA_TYPE_CMS_SIGNED
    This is a CMS signed message.

GPGME_DATA_TYPE_CMS_ENCRYPTED
    This is a CMS encrypted (enveloped data) message.

GPGME_DATA_TYPE_CMS_OTHER
    This is used for other CMS message types.
GPGME_DATA_TYPE_X509_CERT
The data is a X.509 certificate

GPGME_DATA_TYPE_PKCS12
The data is a PKCS#12 message. This is commonly used to exchange private keys for X.509.

-- Function: gpgme_data_type_t gpgme_data_identify (gpgme_data_t DH)
SINCE: 1.4.3

The function gpgme_data_identify returns the type of the data with the handle DH. If it is not possible to perform the identification, the function returns zero (GPGME_DATA_TYPE_INVALID). Note that depending on how the data object has been created the identification may not be possible or the data object may change its internal state (file pointer moved).
For file or memory based data object, the state should not change.


7 Contexts
**********

All cryptographic operations in GPGME are performed within a context, which contains the internal state of the operation as well as configuration parameters. By using several contexts you can run several cryptographic operations in parallel, with different configuration.

-- Data type: gpgme_ctx_t
The gpgme_ctx_t type is a handle for a GPGME context, which is used to hold the configuration, status and result of cryptographic operations.

* Menu:
  * Creating Contexts:: Creating new GPGME contexts.
  * Destroying Contexts:: Releasing GPGME contexts.
  * Result Management:: Managing the result of crypto operations.
  * Context Attributes:: Setting properties of a context.
  * Key Management:: Managing keys with GPGME.
  * Trust Item Management:: Managing trust items with GPGME.
  * Crypto Operations:: Using a context for cryptography.
  * Miscellaneous:: Miscellaneous operations
  * Run Control:: Controlling how operations are run.

File: gpgme.info, Node: Creating Contexts, Next: Destroying Contexts, Up: Contexts
7.1 Creating Contexts
======================

-- Function: gpgme_error_t gpgme_new (gpgme_ctx_t *CTX)
The function gpgme_new creates a new gpgme_ctx_t object and
returns a handle for it in CTX.

The function returns the error code GPG_ERR_NO_ERROR if the
context was successfully created, GPG_ERR_INV_VALUE if CTX is not
a valid pointer, and GPG_ERR_ENOMEM if not enough memory is
available. Also, it returns GPG_ERR_NOTOPERATIONAL if
gpgme_check_version was not called to initialize GPGME, and
GPG_ERR_SELFTEST_FAILED if a selftest failed. Currently, the
only selftest is for Windows MingW32 targets to see if
-mms-bitfields was used (as required).


7.2 Destroying Contexts
========================

-- Function: void gpgme_release (gpgme_ctx_t CTX)
The function gpgme_release destroys the context with the handle
CTX and releases all associated resources.


7.3 Result Management
========================

The detailed result of an operation is returned in operation-specific
structures such as gpgme_decrypt_result_t. The corresponding
retrieval functions such as gpgme_op_decrypt_result provide static
access to the results after an operation completes. Those structures
shall be considered read-only and an application must not allocate such
a structure on its own. The following interfaces make it possible to
detach a result structure from its associated context and give it a
lifetime beyond that of the current operation or context.

-- Function: void gpgme_result_ref (void *RESULT)
SINCE: 1.2.0

The function gpgme_result_ref acquires an additional reference
for the result RESULT, which may be of any type gpgme_*_result_t.
As long as the user holds a reference, the result structure is
guaranteed to be valid and unmodified.
The function gpgme_result_unref releases a reference for the result RESULT. If this was the last reference, the result structure will be destroyed and all resources associated to it will be released.

Note that a context may hold its own references to result structures, typically until the context is destroyed or the next operation is started. In fact, these references are accessed through the gpgme_op_*_result functions.

7.4 Context Attributes
======================

* Menu:

* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting ASCII armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Pinentry Mode:: Choosing the pinentry mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Context Flags:: Additional flags for a context.
* Locale:: Setting the locale of a context.
* Additional Logs:: Additional logs of a context.

7.4.1 Protocol Selection
------------------------

-- Function: gpgme_error_t gpgme_set_protocol (gpgme_ctx_t CTX, gpgme_protocol_t PROTO)

The function gpgme_set_protocol sets the protocol used within the context CTX to PROTO. All crypto operations will be performed by
the crypto engine configured for that protocol. *Note Protocols and Engines:::

Setting the protocol with gpgme_set_protocol does intentionally not check if the crypto engine for that protocol is available and installed correctly. *Note Engine Version Check:::

The function returns the error code GPG_ERR_NO_ERROR if the protocol could be set successfully, and GPG_ERR_INV_VALUE if PROTOCOL is not a valid protocol.

-- Function: gpgme_protocol_t gpgme_get_protocol (gpgme_ctx_t CTX)
The function gpgme_get_protocol retrieves the protocol currently use with the context CTX.


7.4.2 Crypto Engine

-------------------

The following functions can be used to set and retrieve the configuration of the crypto engines of a specific context. The default can also be retrieved without any particular context. *Note Engine Information::. The default can also be changed globally. *Note Engine Configuration:::

-- Function: gpgme_engine_info_t gpgme_ctx_get_engine_info (gpgme_ctx_t CTX)
SINCE: 1.1.0

The function gpgme_ctx_get_engine_info returns a linked list of engine info structures. Each info structure describes the configuration of one configured backend, as used by the context CTX.

The result is valid until the next invocation of gpgme_ctx_set_engine_info for this particular context.

This function can not fail.

-- Function: gpgme_error_t gpgme_ctx_set_engine_info (gpgme_ctx_t CTX, 
gpgme_protocol_t PROTO, const char *FILE_NAME, 
const char *HOME_DIR)
SINCE: 1.1.0

The function gpgme_ctx_set_engine_info changes the configuration
of the crypto engine implementing the protocol PROTO for the context CTX.

FILE_NAME is the file name of the executable program implementing this protocol, and HOME_DIR is the directory name of the configuration directory for this crypto engine. If HOME_DIR is NULL, the engine's default will be used.

Currently this function must be used before starting the first crypto operation. It is unspecified if and when the changes will take effect if the function is called after starting the first operation on the context CTX.

This function returns the error code GPG_ERR_NO_ERROR if successful, or an error code on failure.

File: gpgme.info, Node: Setting the Sender, Next: ASCII Armor, Prev: Crypto Engine, Up: Context Attributes

7.4.3 How to tell the engine the sender.
----------------------------------------

Some engines can make use of the sender's address, for example to figure out the best user id in certain trust models. For verification and signing of mails, it is thus suggested to let the engine know the sender ("From:" address). GPGME provides two functions to accomplish that. Note that the esoteric use of multiple "From:" addresses is not supported.

-- Function: gpgme_error_t gpgme_set_sender (gpgme_ctx_t CTX, int ADDRESS)

SINCE: 1.8.0

The function gpgme_set_sender specifies the sender address for use in sign and verify operations. ADDRESS is expected to be the addr-spec part of an address but my also be a complete mailbox address, in which case this function extracts the addr-spec from it. Using NULL for ADDRESS clears the sender address.

The function returns 0 on success or an error code on failure. The most likely failure is that no valid addr-spec was found in ADDRESS.

-- Function: const char * gpgme_get_sender (gpgme_ctx_t CTX)

SINCE: 1.8.0
The function gpgme_get_sender returns the current sender address from the context, or NULL if none was set. The returned value is valid as long as the CTX is valid and gpgme_set_sender has not been called again.

File: gpgme.info, Node: ASCII Armor, Next: Text Mode, Prev: Setting the Sender, Up: Context Attributes

7.4.4 ASCII Armor
-----------------

-- Function: void gpgme_set_armor (gpgme_ctx_t CTX, int YES)
The function gpgme_set_armor specifies if the output should be ASCII armored. By default, output is not ASCII armored.

ASCII armored output is disabled if YES is zero, and enabled otherwise.

-- Function: int gpgme_get_armor (gpgme_ctx_t CTX)
The function gpgme_get_armor returns 1 if the output is ASCII armored, and 0 if it is not, or if CTX is not a valid pointer.


7.4.5 Text Mode
-----------------

-- Function: void gpgme_set_textmode (gpgme_ctx_t CTX, int YES)
The function gpgme_set_textmode specifies if canonical text mode should be used. By default, text mode is not used.

Text mode is for example used for the RFC2015 signatures; note that the updated RFC 3156 mandates that the mail user agent does some preparations so that text mode is not needed anymore.

This option is only relevant to the OpenPGP crypto engine, and ignored by all other engines.

Canonical text mode is disabled if YES is zero, and enabled otherwise.

-- Function: int gpgme_get_textmode (gpgme_ctx_t CTX)
The function gpgme_get_textmode returns 1 if canonical text mode is enabled, and 0 if it is not, or if CTX is not a valid pointer.

7.4.6 Offline Mode

------------------

-- Function: void gpgme_set_offline (gpgme_ctx_t CTX, int YES)
SINCE: 1.6.0

The function gpgme_set_offline specifies if offline mode should be used. Offline mode is disabled if YES is zero, and enabled otherwise. By default, offline mode is disabled.

The details of the offline mode depend on the used protocol and its backend engine. It may eventually be extended to be more stricter and for example completely disable the use of Dirmngr for any engine.

For the CMS protocol the offline mode specifies whether Dirmngr shall be used to do additional validation that might require connecting external services (e.g. CRL / OCSP checks). Here the offline mode only affects the keylist mode GPGME_KEYLIST_MODE_VALIDATE.

For the OpenPGP protocol offline mode entirely disables the use of the Dirmngr and will thus guarantee that no network connections are done as part of an operation on this context. It has only an effect with GnuPG versions 2.1.23 or later.

For all other protocols the offline mode is currently ignored.

-- Function: int gpgme_get_offline (gpgme_ctx_t CTX)
SINCE: 1.6.0

The function gpgme_get_offline returns 1 if offline mode is enabled, and 0 if it is not, or if CTX is not a valid pointer.

File: gpgme.info, Node: Pinentry Mode, Next: Included Certificates, Prev: Offline Mode, Up: Context Attributes

7.4.7 Pinentry Mode

------------------

-- Function: gpgme_error_t gpgme_set_pinentry_mode (gpgme_ctx_t CTX,
          gpgme_pinentry_mode_t MODE)
SINCE: 1.4.0

The function gpgme_set_pinentry_mode specifies the pinentry mode to be used.
For GnuPG >= 2.1 this option is required to be set to
GPGME_PINENTRY_MODE_LOOPBACK to enable the passphrase callback
mechanism in GPGME through gpgme_set_passphrase_cb.

-- Function: gpgme_pinentry_mode_t gpgme_get_pinentry_mode
         (gpgme_ctx_t CTX)
SINCE: 1.4.0

The function gpgme_get_pinentry_mode returns the mode set for the
context.

-- Data type: enum gpgme_pinentry_mode_t
SINCE: 1.4.0

The gpgme_pinentry_mode_t type specifies the set of possible
pinentry modes that are supported by GPGME if GnuPG >= 2.1 is used.
The following modes are supported:

GPGME_PINENTRY_MODE_DEFAULT
         SINCE: 1.4.0

Use the default of the agent, which is ask.

GPGME_PINENTRY_MODE_ASK
         SINCE: 1.4.0

Force the use of the Pinentry.

GPGME_PINENTRY_MODE_CANCEL
         SINCE: 1.4.0

Emulate use of Pinentrys cancel button.

GPGME_PINENTRY_MODE_ERROR
         SINCE: 1.4.0

Return a Pinentry error No Pinentry.

GPGME_PINENTRY_MODE_LOOPBACK
         SINCE: 1.4.0

Redirect Pinentry queries to the caller. This enables the use
of gpgme_set_passphrase_cb because pinentry queries are
redirected to gpgme.

Note: For 2.1.0 - 2.1.12 this mode requires
allow-loopback-pinentry to be enabled in the
gpg-agent.conf or an agent started with that option.

File: gpgme.info, Node: Included Certificates, Next: Key Listing Mode, Prev: Pinentry Mode, Up: Context Attributes

7.4.8 Included Certificates

--------------------

-- Function: void gpgme_set_include_certs (gpgme_ctx_t CTX,
    int NR_OF_CERTS)
The function gpgme_set_include_certs specifies how many
certificates should be included in an S/MIME signed message. By
default, only the senders certificate is included. The possible
values of NR_OF_CERTS are:

GPGME_INCLUDE_CERTS_DEFAULT
    SINCE: 1.0.3

    Fall back to the default of the crypto backend. This is the
default for GPGME.
-2
    Include all certificates except the root certificate.
-1
    Include all certificates.
0
    Include no certificates.
1
    Include the senders certificate only.
n
    Include the first n certificates of the certificates path,
    starting from the senders certificate. The number n must
    be positive.

Values of NR_OF_CERTS smaller than -2 are undefined.

This option is only relevant to the CMS crypto engine, and ignored
by all other engines.

-- Function: int gpgme_get_include_certs (gpgme_ctx_t CTX)
The function gpgme_get_include_certs returns the number of
certificates to include into an S/MIME signed message.

File: gpgme.info, Node: Key Listing Mode, Next: Passphrase Callback, Prev: Included Certificates, Up: Context Attributes

7.4.9 Key Listing Mode
Function: gpgme_error_t gpgme_set_keylist_mode (gpgme_ctx_t CTX,  
gpgme_keylist_mode_t MODE)
The function gpgme_set_keylist_mode changes the default behaviour  
of the key listing functions. The value in MODE is a bitwise-or  
combination of one or multiple of the following bit values:

GPGME_KEYLIST_MODE_LOCAL
The GPGME_KEYLIST_MODE_LOCAL symbol specifies that the local  
keyring should be searched for keys in the keylisting  
operation. This is the default.

Using only this option results in a --list-keys.

GPGME_KEYLIST_MODE_EXTERN
The GPGME_KEYLIST_MODE_EXTERN symbol specifies that an  
external source should be searched for keys in the keylisting  
operation. The type of external source is dependent on the  
crypto engine used and whether it is combined with  
GPGME_KEYLIST_MODE_LOCAL. For example, it can be a remote  
keyserver or LDAP certificate server.

Using only this option results in a --search-keys for  
GPGME_PROTOCOL_OpenPGP and something similar to  
--list-external-keys for GPGME_PROTOCOL_CMS.

GPGME_KEYLIST_MODE_LOCATE
This is a shortcut for the combination of  
GPGME_KEYLIST_MODE_LOCAL and GPGME_KEYLIST_MODE_EXTERN,  
which results in a --locate-keys for  
GPGME_PROTOCOL_OpenPGP.

GPGME_KEYLIST_MODE_SIGS
The GPGME_KEYLIST_MODE_SIGS symbol specifies that the key  
signatures should be included in the listed keys.

GPGME_KEYLIST_MODE_SIG_NOTATIONS
SINCE: 1.1.1
The GPGME_KEYLIST_MODE_SIG_NOTATIONS symbol specifies that  
the signature notations on key signatures should be included  
in the listed keys. This only works if  
GPGME_KEYLIST_MODE_SIGS is also enabled.

GPGME_KEYLIST_MODE_WITH_TOFU
SINCE: 1.7.0
The GPGME_KEYLIST_MODE_WITH_TOFU symbol specifies that information pertaining to the TOFU trust model should be included in the listed keys.

GPGME_KEYLIST_MODE_WITH_SECRET
SINCE: 1.5.1

The GPGME_KEYLIST_MODE_WITH_SECRET returns information about the presence of a corresponding secret key in a public key listing. A public key listing with this mode is slower than a standard listing but can be used instead of a second run to list the secret keys. This is only supported for GnuPG versions >= 2.1.

GPGME_KEYLIST_MODE_EPHEMERAL
SINCE: 1.2.0

The GPGME_KEYLIST_MODE_EPHEMERAL symbol specifies that keys flagged as ephemeral are included in the listing.

GPGME_KEYLIST_MODE_VALIDATE
SINCE: 0.4.5

The GPGME_KEYLIST_MODE_VALIDATE symbol specifies that the backend should do key or certificate validation and not just get the validity information from an internal cache. This might be an expensive operation and is in general not useful. Currently only implemented for the S/MIME backend and ignored for other backends.

At least one of GPGME_KEYLIST_MODE_LOCAL and GPGME_KEYLIST_MODE_EXTERN must be specified. For future binary compatibility, you should get the current mode with gpgme_get_keylist_mode and modify it by setting or clearing the appropriate bits, and then using that calculated value in the gpgme_set_keylisting_mode operation. This will leave all other bits in the mode value intact (in particular those that are not used in the current version of the library).

The function returns the error code GPG_ERR_NO_ERROR if the mode could be set correctly, and GPG_ERR_INV_VALUE if CTX is not a valid pointer or MODE is not a valid mode.

-- Function: gpgme_keylist_mode_t gpgme_get_keylist_mode
   (gpgme_ctx_t CTX)
The function gpgme_get_keylist_mode returns the current key listing mode of the context CTX. This value can then be modified and used in a subsequent gpgme_set_keylist_mode operation to only
affect the desired bits (and leave all others intact).

The function returns 0 if CTX is not a valid pointer, and the current mode otherwise. Note that 0 is not a valid mode value.

File: gpgme.info, Node: Passphrase Callback, Next: Progress Meter Callback, Prev: Key Listing Mode, Up: Context Attributes

7.4.10 Passphrase Callback

--------------------

-- Data type: gpgme_error_t (*gpgme_passphrase_cb_t)(void *HOOK, const char *UID_HINT, const char *PASSPHRASE_INFO, int PREV_WAS_BAD, int FD)

The gpgme_passphrase_cb_t type is the type of functions usable as passphrase callback function.

The argument UID_HINT might contain a string that gives an indication for which user ID the passphrase is required. If this is not available, or not applicable (in the case of symmetric encryption, for example), UID_HINT will be NULL.

The argument PASSPHRASE_INFO, if not NULL, will give further information about the context in which the passphrase is required. This information is engine and operation specific.

If this is the repeated attempt to get the passphrase, because previous attempts failed, then PREV_WAS_BAD is 1, otherwise it will be 0.

The user must write the passphrase, followed by a newline character, to the file descriptor FD. The function gpgme_io_writen should be used for the write operation. Note that if the user returns 0 to indicate success, the user must at least write a newline character before returning from the callback.

If an error occurs, return the corresponding gpgme_error_t value. You can use the error code GPG_ERR_CANCELED to abort the operation. Otherwise, return 0.

Note: The passphrase_cb only works with GnuPG 1.x and 2.1.x and not with the 2.0.x series. See gpgme_set_pinentry_mode for more details on 2.1.x usage.

-- Function: void gpgme_set_passphrase_cb (gpgme_ctx_t CTX, gpgme_passphrase_cb_t PASSFUNC, void *HOOK_VALUE)

The function gpgme_set_passphrase_cb sets the function that is
used when a passphrase needs to be provided by the user to
PASSFUNC. The function PASSFUNC needs to implemented by the user,
and whenever it is called, it is called with its first argument
being HOOK_VALUE. By default, no passphrase callback function is
set.

Not all crypto engines require this callback to retrieve the
passphrase. It is better if the engine retrieves the passphrase
from a trusted agent (a daemon process), rather than having each
user to implement their own passphrase query. Some engines do not
even support an external passphrase callback at all, in this case
the error code GPG_ERR_NOT_SUPPORTED is returned.

For GnuPG >= 2.1 the pinentry mode has to be set to
GPGME_PINENTRY_MODE_LOOPBACK to enable the passphrase callback.
See gpgme_set_pinentry_mode.

The user can disable the use of a passphrase callback function by
calling gpgme_set_passphrase_cb with PASSFUNC being NULL.

-- Function: void gpgme_get_passphrase_cb (gpgme_ctx_t CTX,
        gpgme_passphrase_cb_t *PASSFUNC, void **HOOK_VALUE)
The function gpgme_get_passphrase_cb returns the function that is
used when a passphrase needs to be provided by the user in
*PASSFUNC, and the first argument for this function in *HOOK_VALUE.
If no passphrase callback is set, or CTX is not a valid pointer,
NULL is returned in both variables.

PASSFUNC or HOOK VALUE can be NULL. In this case, the
 corresponding value will not be returned.

File: gpgme.info, Node: Progress Meter Callback, Next: Status Message Callback, Prev: Passphrase Callback, Up:
Context Attributes

7.4.11 Progress Meter Callback

---------------------------

-- Data type: void (*gpgme_progress_cb_t)(void *HOOK, const char *WHAT,
int TYPE, int CURRENT, int TOTAL)
The gpgme_progress_cb_t type is the type of functions usable as
progress callback function.

The arguments are specific to the crypto engine. More information
about the progress information returned from the GnuPG engine can
be found in the GnuPG source code in the file doc/DETAILS in the
section PROGRESS.
Function: void gpgme_set_progress_cb (gpgme_ctx_t CTX,
gpgme_progress_cb_t PROGFUNC, void *HOOK_VALUE)
The function gpgme_set_progress_cb sets the function that is used when progress information about a cryptographic operation is available. The function PROGFUNC needs to be implemented by the user, and whenever it is called, it is called with its first argument being HOOK_VALUE. By default, no progress callback function is set.

Setting a callback function allows an interactive program to display progress information about a long operation to the user.

The user can disable the use of a progress callback function by calling gpgme_set_progress_cb with PROGFUNC being NULL.

Function: void gpgme_get_progress_cb (gpgme_ctx_t CTX,
gpgme_progress_cb_t *PROGFUNC, void **HOOK_VALUE)
The function gpgme_get_progress_cb returns the function that is used to inform the user about the progress made in PROGFUNC, and the first argument for this function in HOOK_VALUE. If no progress callback is set, or CTX is not a valid pointer, NULL is returned in both variables.

PROGFUNC or HOOK_VALUE can be NULL. In this case, the corresponding value will not be returned.


7.4.12 Status Message Callback
-----------------------------

Function: void gpgme_set_status_cb (gpgme_ctx_t CTX,
gpgme_status_cb_t STATUSFUNC, void *HOOK_VALUE)

Since: 1.6.0

Data type: gpgme_error_t (*gpgme_status_cb_t)(void *HOOK, const char *KEYWORD, const char *ARGS)
The gpgme_status_cb_t type is the type of function usable as a status message callback function.

The argument KEYWORD is the name of the status message while the ARGS argument contains any arguments for the status message.

If an error occurs, return the corresponding gpgme_error_t value. Otherwise, return 0.

Function: void gpgme_set_status_cb (gpgme_ctx_t CTX,
gpgme_status_cb_t STATUSFUNC, void *HOOK_VALUE)
Since: 1.6.0
The function `gpgme_set_status_cb` sets the function that is used when a status message is received from gpg to `STATUSFUNC`. The function `STATUSFUNC` needs to be implemented by the user, and whenever it is called, it is called with its first argument being `HOOK_VALUE`. By default, no status message callback function is set.

The user can disable the use of a status message callback function by calling `gpgme_set_status_cb` with `STATUSFUNC` being NULL.

```c
-- Function: void gpgme_get_status_cb (gpgme_ctx_t CTX,
    gpgme_status_cb_t *STATUSFUNC, void **HOOK_VALUE)
SINCE: 1.6.0
```

The function `gpgme_get_status_cb` returns the function that is used to process status messages from gpg in `*STATUSFUNC`, and the first argument for this function in `*HOOK_VALUE`. If no status message callback is set, or `CTX` is not a valid pointer, NULL is returned in both variables.

```

7.4.13 Context Flags

----------

-- Function: gpgme_error_t gpgme_set_ctx_flag (gpgme_ctx_t CTX,
    const char *NAME, const char *VALUE)
SINCE: 1.7.0
```

Some minor properties of the context can be controlled with flags set by this function. The properties are identified by the following values for `NAME`:

"redraw"

This flag is normally not changed by the caller because GPGME sets and clears it automatically: The flag is cleared before an operation and set if an operation noticed that the engine has launched a Pinentry. A Curses based application may use this information to redraw the screen; for example:

```
err = gpgme_op_keylist_start (ctx, "foo@example.org", 0);
while (!err)
{
    err = gpgme_op_keylist_next (ctx, &key);
    if (err)
        break;
```
show_key (key);
gpgme_key_release (key);
}
if ((s = gpgme_get_ctx_flag (ctx, "redraw")) && *s)
  redraw_screen ();
gpgme_release (ctx);

"full-status"
Using a VALUE of "1" the status callback set by
gpgme_set_status_cb returns all status lines with the
exception of PROGRESS lines. With the default of "0" the
status callback is only called in certain situations.

"raw-description"
Setting the VALUE to "1" returns human readable strings in a
raw format. For example the non breaking space characters
("~") will not be removed from the description field of the
gpgme_tofu_info_t object.

"export-session-key"
Using a VALUE of "1" specifies that the context should try to
export the symmetric session key when decrypting data. By
default, or when using an empty string or "0" for VALUE,
session keys are not exported.

"override-session-key"
The string given in VALUE is passed to the GnuPG engine to
override the session key for decryption. The format of that
session key is specific to GnuPG and can be retrieved during a
decrypt operation when the context flag "export-session-key"
is enabled. Please be aware that using this feature with
GnuPG < 2.1.16 will leak the session key on many platforms via
ps(1).

"auto-key-retrieve"
Setting the VALUE to "1" asks the backend to automatically
retrieve a key for signature verification if possible. Note
that this option makes a "web bug" like behavior possible.
Keyserver or Web Key Directory operators can see which keys
you request, so by sending you a message signed by a brand new
key (which you naturally will not have on your local keyring),
the operator can tell both your IP address and the time when
you verified the signature.

"request-origin"
The string given in VALUE is passed to the GnuPG engines to
request restrictions based on the origin of the request.
Valid values are documented in the GnuPG manual and the gpg
man page under the option --request-origin. Requires at least GnuPG 2.2.6 to have an effect.

"no-symkey-cache"
For OpenPGP disable the passphrase cache used for symmetrical en- and decryption. This cache is based on the message specific salt value. Requires at least GnuPG 2.2.7 to have an effect.

"ignore-mdc-error"
This flag passes the option --ignore-mdc-error to gpg. This can be used to force decryption of a message which failed due to a missing integrity check. This flag must be used with great caution and only if it is a known non-corrupted old message and the decryption result of the former try had the decryption result flag legacy_cipher_nomdc set. For failsafe reasons this flag is reset after each operation.

"auto-key-locate"
The string given in VALUE is passed to gpg. This can be used to change the behavior of a GPGME_KEYLIST_MODE_LOCATE keylisting. Valid values are documented in the GnuPG manual and the gpg man page under the option --auto-key-locate. Requires at least GnuPG 2.1.18.

Note: Keys retrieved through auto-key-locate are automatically imported in the keyring.

trust-model
SINCE: 1.11.2

Change the trust-model for all GnuPG engine operations. An empty string sets the trust-model back to the users default. If the trust-model is not supported by GnuPG the behavior is undefined and will likely cause all operations to fail. Example: "tofu+pgp".

This options should be used carefully with a strict version requirement. In some versions of GnuPG setting the trust-model changes the default trust-model for future operations. A change in the trust-model also can have unintended side effects, like rebuilding the trust-db.

This function returns 0 on success.

-- Function: const char * gpgme_get_ctx_flag (gpgme_ctx_t CTX, const char *NAME)
The value of flags settable by gpgme_set_ctx_flag can be retrieved by this function. If NAME is unknown the function returns NULL. For boolean flags an empty string is returned for False and the string "1" is returned for True; either atoi(3) or a test for an empty string can be used to get the boolean value.


7.4.14 Locale
-------------

A locale setting can be associated with a context. This locale is passed to the crypto engine, and used for applications like the PIN entry, which is displayed to the user when entering a passphrase is required.

The default locale is used to initialize the locale setting of all contexts created afterwards.

-- Function: gpgme_error_t gpgme_setLocale (gpgme_ctx_t CTX, int CATEGORY, const char *VALUE)
SINCE: 0.4.3

The function gpgme_setLocale sets the locale of the context CTX, or the default locale if CTX is a null pointer.

The locale settings that should be changed are specified by CATEGORY. Supported categories are LC_CTYPE, LC_MESSAGES, and LC_ALL, which is a wildcard you can use if you want to change all the categories at once.

The value to be used for the locale setting is VALUE, which will be copied to GPGMEs internal data structures. VALUE can be a null pointer, which disables setting the locale, and will make PIN entry and other applications use their default setting, which is usually not what you want.

Note that the settings are only used if the application runs on a text terminal, and that the settings should fit the configuration of the output terminal. Normally, it is sufficient to initialize the default value at startup.

The function returns an error if not enough memory is available.
Additional logs can be associated with a context. These logs are engine specific and can be obtained with gpgme_op_getauditlog.

-- Function: gpgme_error_t gpgme_op_getauditlog (gpgme_ctx_t CTX, gpgme_data_t OUTPUT, unsigned int FLAGS)
SINCE: 1.1.1

The function gpgme_op_getauditlog is used to obtain additional logs as specified by FLAGS into the OUTPUT data. If

The function returns the error code GPG_ERR_NO_ERROR if a log could be queried from the engine, and GPG_ERR_NOT_IMPLEMENTED if the log specified in FLAGS is not available for this engine. If no log is available GPG_ERR_NO_DATA is returned.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_AUDITLOG_DIAG
SINCE: 1.11.2

Obtain diagnostic output which would be written to stderr in interactive use of the engine. This can be used to provide additional diagnostic information in case of errors in other operations.

Note: If log-file has been set in the configuration the log will be empty and GPG_ERR_NO_DATA will be returned.

Implemented for: GPGME_PROTOCOL_OpenPGP

GPGME_AUDITLOG_DEFAULT
SINCE: 1.11.2

This flag has the value 0 for compatibility reasons. Obtains additional information from the engine by issuing the GETAUDITLOG command. For GPGME_PROTOCOL_CMS this provides additional information about the X509 certificate chain.

Implemented for: GPGME_PROTOCOL_CMS

GPGME_AUDITLOG_HTML
SINCE: 1.1.1
Same as GPGME_AUDITLOG_DEFAULT but in HTML.

Implemented for: GPGME_PROTOCOL_CMS

-- Function: gpgme_error_t gpgme_op_getauditlog_start (gpgme_ctx_t CTX,
             gpgme_data_t OUTPUT, unsigned int FLAGS)
SINCE: 1.1.1

This is the asynchronous variant of gpgme_op_getauditlog.

File: gpgme.info, Node: Key Management, Next: Trust Item Management, Prev: Context Attributes, Up: Contexts

7.5 Key Management
===================

Some of the cryptographic operations require that recipients or signers are specified. This is always done by specifying the respective keys that should be used for the operation. The following section describes how such keys can be selected and manipulated.

* Menu:

  * Key objects:: Description of the key structures.
  * Listing Keys:: Browsing the list of available keys.
  * Information About Keys:: Requesting detailed information about keys.
  * Manipulating Keys:: Operations on keys.
  * Generating Keys:: Creating new key pairs.
  * Signing Keys:: Adding key signatures to public keys.
  * Exporting Keys:: Retrieving key data from the key ring.
  * Importing Keys:: Adding keys to the key ring.
  * Deleting Keys:: Removing keys from the key ring.
  * Changing Passphrases:: Change the passphrase of a key.
  * Changing TOFU Data:: Changing data pertaining to TOFU.
  * Advanced Key Editing:: Advanced key edit operation.

File: gpgme.info, Node: Key objects, Next: Listing Keys, Up: Key Management

7.5.1 Key objects
-----------------

The keys are represented in GPGME by structures which may only be read by the application but never be allocated or changed. They are valid as long as the key object itself is valid.

-- Data type: gpgme_key_t
The gpgme_key_t type is a pointer to a key object. It has the following members:

```
gpgme_keylist_mode_t keylist_mode
SINCE: 0.9.0
```

The keylist mode that was active when the key was retrieved.

```
unsigned int revoked : 1
This is true if the key is revoked.
```

```
unsigned int expired : 1
This is true if the key is expired.
```

```
unsigned int disabled : 1
This is true if the key is disabled.
```

```
unsigned int invalid : 1
This is true if the key is invalid. This might have several reasons, for example for the S/MIME backend, it will be set during key listings if the key could not be validated due to missing certificates or unmatched policies.
```

```
unsigned int can_encrypt : 1
This is true if the key (ie one of its subkeys) can be used for encryption.
```

```
unsigned int can_sign : 1
This is true if the key (ie one of its subkeys) can be used to create data signatures.
```

```
unsigned int can_certify : 1
This is true if the key (ie one of its subkeys) can be used to create key certificates.
```

```
unsigned int can_authenticate : 1
SINCE: 0.4.5
```

This is true if the key (ie one of its subkeys) can be used for authentication.

```
unsigned int is_qualified : 1
SINCE: 1.1.0
```

This is true if the key can be used for qualified signatures according to local government regulations.
unsigned int secret : 1
   This is true if the key is a secret key. Note, that this will
   always be true even if the corresponding subkey flag may be
   false (offline/stub keys). This is only set if a listing of
   secret keys has been requested or if
   GPGME_KEYLIST_MODE_WITH_SECRET is active.

unsigned int origin : 5
   SINCE: 1.8.0
   Reserved for the origin of this key.

gpgme_protocol_t protocol
   This is the protocol supported by this key.

char *issuer_serial
   If protocol is GPGME_PROTOCOL_CMS, then this is the issuer
   serial.

char *issuer_name
   If protocol is GPGME_PROTOCOL_CMS, then this is the issuer
   name.

char *chain_id
   If protocol is GPGME_PROTOCOL_CMS, then this is the chain
   ID, which can be used to built the certificate chain.

gpgme_validity_t owner_trust
   If protocol is GPGME_PROTOCOL_OpenPGP, then this is the
   owner trust.

gpgme_subkey_t subkeys
   This is a linked list with the subkeys of the key. The first
   subkey in the list is the primary key and usually available.

gpgme_user_id_t uids
   This is a linked list with the user IDs of the key. The first
   user ID in the list is the main (or primary) user ID.

char *fpr
   SINCE: 1.7.0
   This field gives the fingerprint of the primary key. Note
   that this is a copy of the fingerprint of the first subkey.
   For an incomplete key (for example from a verification result)
   a subkey may be missing but this field may be set
   nevertheless.
unsigned long last_update
   SINCE: 1.8.0

   Reserved for the time of the last update of this key.

-- Data type: gpgme_subkey_t
   SINCE: 1.5.0

   The gpgme_subkey_t type is a pointer to a subkey structure.
   Subkeys are one component of a gpgme_key_t object. In fact,
   subkeys are those parts that contains the real information about
   the individual cryptographic keys that belong to the same key
   object. One gpgme_key_t can contain several subkeys. The first
   subkey in the linked list is also called the primary key.

   The subkey structure has the following members:

   gpgme_subkey_t next
      This is a pointer to the next subkey structure in the linked
      list, or NULL if this is the last element.

   unsigned int revoked : 1
      This is true if the subkey is revoked.

   unsigned int expired : 1
      This is true if the subkey is expired.

   unsigned int disabled : 1
      This is true if the subkey is disabled.

   unsigned int invalid : 1
      This is true if the subkey is invalid.

   unsigned int can_encrypt : 1
      This is true if the subkey can be used for encryption.

   unsigned int can_sign : 1
      This is true if the subkey can be used to create data
      signatures.

   unsigned int can_certify : 1
      This is true if the subkey can be used to create key
      certificates.

   unsigned int canAuthenticate : 1
      SINCE: 0.4.5

      This is true if the subkey can be used for authentication.
unsigned int is_qualified : 1
   SINCE: 1.1.0

   This is true if the subkey can be used for qualified
   signatures according to local government regulations.

unsigned int is_de_vs : 1
   SINCE: 1.8.0

   This is true if the subkey complies with the rules for
   classified information in Germany at the restricted level
   (VS-NfD). This are currently RSA keys of at least 2048 bits or
   ECDH/ECDSA keys using a Brainpool curve.

unsigned int secret : 1
   This is true if the subkey is a secret key. Note that it will
   be false if the key is actually a stub key; i.e. a secret key
   operation is currently not possible (offline-key). This is
   only set if a listing of secret keys has been requested or if
   GPGME_KEYLIST_MODE_WITH_SECRET is active.

gpgme_pubkey_algo_t pubkey_algo
   This is the public key algorithm supported by this subkey.

unsigned int length
   This is the length of the subkey (in bits).

char *keyid
   This is the key ID of the subkey in hexadecimal digits.

char *fpr
   This is the fingerprint of the subkey in hexadecimal digits,
   if available.

char *keygrip
   SINCE: 1.7.0

   The keygrip of the subkey in hex digit form or NULL if not
   available.

long int timestamp
   This is the creation timestamp of the subkey. This is -1 if
   the timestamp is invalid, and 0 if it is not available.

long int expires
   This is the expiration timestamp of the subkey, or 0 if the
   subkey does not expire.
unsigned int is_cardkey : 1
   SINCE: 1.2.0

   True if the secret key is stored on a smart card.

char *card_number
   SINCE: 1.2.0

   The serial number of a smart card holding this key or NULL.

char *curve
   For ECC algorithms the name of the curve.

-- Data type: gpgme_user_id_t

A user ID is a component of a gpgme_key_t object. One key can have many user IDs. The first one in the list is the main (or primary) user ID.

The user ID structure has the following members.

gpgme_user_id_t next
   This is a pointer to the next user ID structure in the linked list, or NULL if this is the last element.

unsigned int revoked : 1
   This is true if the user ID is revoked.

unsigned int invalid : 1
   This is true if the user ID is invalid.

gpgme_validity_t validity
   This specifies the validity of the user ID.

char *uid
   This is the user ID string.

char *name
   This is the name component of uid, if available.

char *comment
   This is the comment component of uid, if available.

char *email
   This is the email component of uid, if available.

char *address;
The mail address (addr-spec from RFC-5322) of the user ID string. This is generally the same as the email part of this structure but might be slightly different. If no mail address is available NULL is stored.

```c
struct gpgme_tofu_info_t {
    const char *user_id;
    const char *mail_address;
    gpgme_key_sig_t signatures;
    struct gpgme_tofu_info_t *next;
    unsigned int validity:
    unsigned long last_update;
}
```

If not NULL information from the TOFU database pertaining to this user id.

```c
struct gpgme_key_sig_t {
    struct gpgme_tofu_info_t *info;
    const char *user_id;
    const char *mail_address;
    struct gpgme_key_sig_t *next;
    unsigned int validity:
    unsigned long last_update;
}
```

This is a linked list with the signatures on this user ID.

```c
unsigned int origin : 5
```

Reserved for the origin of this user ID.

```c
unsigned long last_update
```

Reserved for the time of the last update of this user ID.

-- Data type: gpgme_tofu_info_t

The `gpgme_tofu_info_t` type is a pointer to a tofu info structure. Tofu info structures are one component of a `gpgme_user_id_t` object, and provide information from the TOFU database pertaining to the user ID.

The tofu info structure has the following members:

```c
struct gpgme_key_sig_t {
    struct gpgme_tofu_info_t *info;
    const char *user_id;
    const char *mail_address;
    struct gpgme_key_sig_t *next;
    unsigned int validity:
    unsigned long last_update;
}
```

This is a pointer to the next tofu info structure in the linked list, or NULL if this is the last element.

```c
unsigned int validity : 3
```

This is the TOFU validity. It can have the following values:

0

The value 0 indicates a conflict.

1

The value 1 indicates a key without history.
The value 2 indicates a key with too little history.

The value 3 indicates a key with enough history for basic trust.

The value 4 indicates a key with a lot of history.

unsigned int policy : 4
This is the TOFU policy, see gpgme_tofu_policy_t.

unsigned short signcount
This is the number of signatures seen for this binding (or USHRT_MAX if there are more than that).

unsigned short encrcount
This is the number of encryptions done with this binding (or USHRT_MAX if there are more than that).

unsigned long signfirst
Number of seconds since Epoch when the first signature was seen with this binding.

unsigned long signlast
Number of seconds since Epoch when the last signature was seen with this binding.

unsigned long encrfirst
Number of seconds since Epoch when the first encryption was done with this binding.

unsigned long encrlast
Number of seconds since Epoch when the last encryption was done with this binding.

char *description
A human-readable string summarizing the TOFU data (or NULL).

-- Data type: gpgme_key_sig_t

The gpgme_key_sig_t type is a pointer to a key signature structure. Key signatures are one component of a gpgme_key_t object, and validate user IDs on the key in the OpenPGP protocol.

The signatures on a key are only available if the key was retrieved via a listing operation with the GPGME_KEYLIST_MODESIGS mode.
enabled, because it can be expensive to retrieve all signatures of a key.

The signature notations on a key signature are only available if the key was retrieved via a listing operation with the GPGME_KEYLIST_MODE_SIG_NOTATIONS mode enabled, because it can be expensive to retrieve all signature notations.

The key signature structure has the following members:

- **gpgme_key_sig_t next**
  This is a pointer to the next key signature structure in the linked list, or NULL if this is the last element.

- **unsigned int revoked : 1**
  This is true if the key signature is a revocation signature.

- **unsigned int expired : 1**
  This is true if the key signature is expired.

- **unsigned int invalid : 1**
  This is true if the key signature is invalid.

- **unsigned int exportable : 1**
  This is true if the key signature is exportable.

- **gpgme_pubkey_algo_t pubkey_algo**
  This is the public key algorithm used to create the signature.

- **char *keyid**
  This is the key ID of the key (in hexadecimal digits) used to create the signature.

- **long int timestamp**
  This is the creation timestamp of the key signature. This is -1 if the timestamp is invalid, and 0 if it is not available.

- **long int expires**
  This is the expiration timestamp of the key signature, or 0 if the key signature does not expire.

- **gpgme_error_t status**
  This is the status of the signature and has the same meaning as the member of the same name in a gpgme_signature_t object.

- **unsigned int sig_class**
  This specifies the signature class of the key signature. The
meaning is specific to the crypto engine.

char *uid
This is the main user ID of the key used to create the signature.

char *name
This is the name component of uid, if available.

char *comment
This is the comment component of uid, if available.

char *email
This is the email component of uid, if available.

gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

File: gpgme.info, Node: Listing Keys, Next: Information About Keys, Prev: Key objects, Up: Key Management

7.5.2 Listing Keys
--------------

-- Function: gpgme_error_t gpgme_op_keylist_start (gpgme_ctx_t CTX, const char *PATTERN, int SECRET_ONLY)

The function gpgme_op_keylist_start initiates a key listing operation inside the context CTX. It sets everything up so that subsequent invocations of gpgme_op_keylist_next return the keys in the list.

If PATTERN is NULL, all available keys are returned. Otherwise, PATTERN contains an engine specific expression that is used to limit the list to all keys matching the pattern. Note that the total length of the pattern is restricted to an engine-specific maximum (a couple of hundred characters are usually accepted). The pattern should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If SECRET_ONLY is not 0, the list is restricted to secret keys only.

The context will be busy until either all keys are received (and gpgme_op_keylist_next returns GPG_ERR_EOF), or gpgme_op_keylist_end is called to finish the operation.
The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_ext_start (gpgme_ctx_t CTX, const char *PATTERN[], int SECRET_ONLY, int RESERVED)

The function gpgme_op_keylist_ext_start initiates an extended key listing operation inside the context CTX. It sets everything up so that subsequent invocations of gpgme_op_keylist_next return the keys in the list.

If PATTERN or *PATTERN is NULL, all available keys are returned. Otherwise, PATTERN is a NULL terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim. Note that the total length of all patterns is restricted to an engine-specific maximum (the exact limit also depends on the number of patterns and amount of quoting required, but a couple of hundred characters are usually accepted). Patterns should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If SECRET_ONLY is not 0, the list is restricted to secret keys only.

The value of RESERVED must be 0.

The context will be busy until either all keys are received (and gpgme_op_keylist_next returns GPG_ERR_EOF), or gpgme_op_keylist_end is called to finish the operation.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_from_data_start (gpgme_ctx_t CTX, gpgme_data_t DATA, int RESERVED)

SINCE: 1.8.0

The function gpgme_op_keylist_from_data_start initiates a key listing operation inside the context CTX. In contrast to the other key listing operation the keys are read from the supplied DATA and not from the local key database. The keys are also not imported into the local key database. The function sets everything up so that subsequent invocations of gpgme_op_keylist_next return the keys from DATA.
The value of RESERVED must be 0.

This function requires at least GnuPG version 2.1.14 and currently works only with OpenPGP keys.

The context will be busy until either all keys are received (and gpgme_op_keylist_next returns GPG_ERR_EOF), or gpgme_op_keylist_end is called to finish the operation. While the context is busy DATA may not be released.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_keylist_next (gpgme_ctx_t CTX, gpgme_key_t *R_KEY)

The function gpgme_op_keylist_next returns the next key in the list created by a previous gpgme_op_keylist_start operation in the context CTX. The key will have one reference for the user.

*Note Manipulating Keys::.

This is the only way to get at gpgme_key_t objects in GPGME.

If the last key in the list has already been returned, gpgme_op_keylist_next returns GPG_ERR_EOF.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_KEY is not a valid pointer, and GPG_ERR_ENOMEM if there is not enough memory for the operation.

-- Function: gpgme_error_t gpgme_op_keylist_end (gpgme_ctx_t CTX)

The function gpgme_op_keylist_end ends a pending key list operation in the context CTX.

After the operation completed successfully, the result of the key listing operation can be retrieved with gpgme_op_keylist_result.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.

The following example illustrates how all keys containing a certain string (g10code) can be listed with their key ID and the name and email address of the main user ID:
gpgme_ctx_t ctx;
gpgme_key_t key;
gpgme_error_t err = gpgme_new (&ctx);

if (!err)
{
    err = gpgme_op_keylist_start (ctx, "g10code", 0);
    while (!err)
    {
        err = gpgme_op_keylist_next (ctx, &key);
        if (err)
            break;
        printf (%s:, key->subkeys->keyid);
        if (key->uids && key->uids->name)
            printf (%s, key->uids->name);
        if (key->uids && key->uids->email)
            printf (%s, key->uids->email);
        putchar (\n);
        gpgme_key_release (key);
    }
    gpgme_release (ctx);
}
if (gpg_err_code (err) != GPG_ERR_EOF)
{
    fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
    exit (1);
}

-- Data type: gpgme_keylist_result_t
This is a pointer to a structure used to store the result of a
 gpgme_op_keylist_* operation. After successfully ending a key
 listing operation, you can retrieve the pointer to the result with
 gpgme_op_keylist_result. The structure contains the following
 member:

 unsigned int truncated : 1
    This is true if the crypto backend had to truncate the result,
    and less than the desired keys could be listed.

-- Function: gpgme_keylist_result_t gpgme_op_keylist_result
 (gpgme_ctx_t CTX)
The function gpgme_op_keylist_result returns a
 gpgme_keylist_result_t pointer to a structure holding the result
 of a gpgme_op_keylist_* operation. The pointer is only valid if
 the last operation on the context was a key listing operation, and
 if this operation finished successfully. The returned pointer is
 only valid until the next operation is started on the context.
In a simple program, for which a blocking operation is acceptable, the following function can be used to retrieve a single key.

```
-- Function: gpgme_error_t gpgme_get_key (gpgme_ctx_t CTX,
    const char *FPR, gpgme_key_t *R_KEY, int SECRET)

The function gpgme_get_key gets the key with the fingerprint (or key ID) FPR from the crypto backend and return it in R_KEY. If SECRET is true, get the secret key. The currently active keylist mode is used to retrieve the key. The key will have one reference for the user.

If the key is not found in the keyring, gpgme_get_key returns the error code GPG_ERR_EOF and *R_KEY will be set to NULL.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_KEY is not a valid pointer or FPR is not a fingerprint or key ID, GPG_ERR_AMBIGUOUS_NAME if the key ID was not a unique specifier for a key, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.
```


7.5.3 Information About Keys

Please see the beginning of this section for more information about gpgme_key_t objects.

```
-- Data type: gpgme_validity_t

The gpgme_validity_t type is used to specify the validity of a user ID in a key. The following validities are defined:

GPGME_VALIDITYUNKNOWN
The user ID is of unknown validity. The string representation of this validity is ?.

GPGME_VALIDITY_UNDEFINED
The validity of the user ID is undefined. The string representation of this validity is q.

GPGME_VALIDITY_NEVER
The user ID is never valid. The string representation of this validity is n.

GPGME_VALIDITY_MARGINAL
The user ID is marginally valid. The string representation of
this validity is m.

GPGME_VALIDITY_FULL
The user ID is fully valid. The string representation of this validity is f.

GPGME_VALIDITY_ULTIMATE
The user ID is ultimately valid. The string representation of this validity is u.


7.5.4 Manipulating Keys
-----------------------

-- Function: void gpgme_key_ref (gpgme_key_t KEY)
The function gpgme_key_ref acquires an additional reference for the key KEY.

-- Function: void gpgme_key_unref (gpgme_key_t KEY)
The function gpgme_key_unref releases a reference for the key KEY. If this was the last reference, the key will be destroyed and all resources associated to it will be released.


7.5.5 Generating Keys
---------------------

GPGME provides a set of functions to create public key pairs. Most of these functions require the use of GnuPG 2.1 and later; for older GnuPG versions the gpgme_op_genkey function can be used. Existing code which wants to update to the new functions or new code which shall supports older GnuPG versions may try the new functions first and provide a fallback to the old function if the error code GPG_ERR_NOT_SUPPORTED is received.

-- Function: gpgme_error_t gpgme_op_createkey (gpgme_ctx_t CTX, const char *USERID, const char *ALGO, unsigned long RESERVED, unsigned long EXPIRES, gpgme_key_t EXTRAKEY, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createkey generates a new key for the
protocol active in the context CTX. As of now this function does only work for OpenPGP and requires at least version 2.1.13 of GnuPG.

USERID is commonly the mail address associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

ALGO specifies the algorithm for the new key (actually a keypair of public and private key). For a list of supported algorithms, see the GnuPG manual. If ALGO is NULL or the string "default", the key is generated using the default algorithm of the engine. If the string "future-default" is used the engine may use an algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms. For the OpenPGP protocol, the specification of a default algorithm, without requesting a non-default usage via FLAGS, triggers the creation of a primary key plus a secondary key (subkey).

RESERVED must be set to zero.

EXPIRES specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag GPGME_CREATE_NOEXPIRE to create keys that do not expire. Note that this parameter takes an unsigned long value and not a time_t to avoid problems on systems which use a signed 32 bit time_t. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

EXTRAKEY is currently not used and must be set to NULL. A future version of GPGME may use this parameter to create X.509 keys.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME_CREATE_SIGN
GPGME_CREATE_ENCR
GPGME_CREATE_CERT
GPGME_CREATE_AUTH

Since: 1.7.0

Do not create the key with the default capabilities (key usage) of the requested algorithm but use those explicitly given by these flags: signing, encryption, certification, or authentication. The allowed combinations depend on the algorithm.
If any of these flags are set and a default algorithm has been selected only one key is created in the case of the OpenPGP protocol.

**GPGME_CREATE_NOPASSWD**  
**SINCE:** 1.7.0  
Request generation of the key without password protection.

**GPGME_CREATE_SELFSIGNED**  
**SINCE:** 1.7.0  
For an X.509 key do not create a CSR but a self-signed certificate. This has not yet been implemented.

**GPGME_CREATE_NOSTORE**  
**SINCE:** 1.7.0  
Do not store the created key in the local key database. This has not yet been implemented.

**GPGME_CREATE_WANTPUB**  
**GPGME_CREATE_WANTSEC**  
**SINCE:** 1.7.0  
Return the public or secret key as part of the result structure. This has not yet been implemented.

**GPGME_CREATE_FORCE**  
**SINCE:** 1.7.0  
The engine does not allow the creation of a key with a user ID already existing in the local key database. This flag can be used to override this check.

**GPGME_CREATE_NOEXPIRE**  
**SINCE:** 1.8.0  
Request generation of keys that do not expire.

After the operation completed successfully, information about the created key can be retrieved with gpgme_op_genkey_result.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.
-- Function: gpgme_error_t gpgme_op_createkey_start (gpgme_ctx_t CTX,
const char *USERID, const char *ALGO, unsigned long RESERVED,
unsigned long EXPIRES, gpgme_key_t EXTRAKEY,
unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createkey_start initiates a
gpgme_op_createkey operation; see there for details. It must be
completed by calling gpgme_wait on the context. *Note Waiting
For Completion*:

-- Function: gpgme_error_t gpgme_op_createsubkey (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *ALGO, unsigned long RESERVED,
unsigned long EXPIRES, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createsubkey creates and adds a new subkey
to the primary OpenPGP key given by KEY. The only allowed protocol
in CTX is GPGME_PROTOCOL_OPENPGP. Subkeys (aka secondary keys)
are a concept in the OpenPGP protocol to bind several keys to a
primary key. As of now this function requires at least version
2.1.13 of GnuPG.

KEY specifies the key to operate on.

ALGO specifies the algorithm for the new subkey. For a list of
supported algorithms, see the GnuPG manual. If ALGO is NULL or
the string "default", the subkey is generated using the default
algorithm for an encryption subkey of the engine. If the string
"future-default" is used the engine may use an encryption algorithm
which is planned to be the default in a future release of the
engine; however existing implementation of the protocol may not be
able to already handle such future algorithms.

RESERVED must be set to zero.

EXPIRES specifies the expiration time in seconds. If you supply 0,
a reasonable expiration time is chosen. Use the flag
GPGME_CREATE_NOEXPIRE to create keys that do not expire. Note
that this parameter takes an unsigned long value and not a time_t
to avoid problems on systems which use a signed 32 bit time_t.
Note further that the OpenPGP protocol uses 32 bit values for
timestamps and thus can only encode dates up to the year 2106.

FLAGS takes the same values as described above for
gpgme_op_createkey.
After the operation completed successfully, information about the created key can be retrieved with gpgme_op_genkey_result.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_createsubkey_start
    (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *ALGO,
     unsigned long RESERVED, unsigned long EXPIRES,
     unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_createsubkey_start initiates a gpgme_op_createsubkey operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion::

-- Function: gpgme_error_t gpgme_op_adduid (gpgme_ctx_t CTX,
    gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_adduid adds a new user ID to the OpenPGP key given by KEY. Adding additional user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context CTX must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

KEY specifies the key to operate on.

USERID is the user ID to add to the key. A user ID is commonly the mail address to be associated with the key. GPGME does not require a specific syntax but if more than a mail address is given, RFC-822 style format is suggested. The value is expected to be in UTF-8 encoding (i.e. no IDN encoding for mail addresses). This is a required parameter.

FLAGS are currently not used and must be set to zero.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_adduid_start (gpgme_ctx_t CTX,
    gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);
SINCE: 1.7.0

The function gpgme_op_adduid_start initiates a gpgme_op_adduid operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

-- Function: gpgme_error_t gpgme_op_revuid (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_revuid revokes a user ID from the OpenPGP key given by KEY. Revoking user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context CTX must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

KEY specifies the key to operate on.

USERID is the user ID to be revoked from the key. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. This is a required parameter.

FLAGS are currently not used and must be set to zero.

Note that the engine wont allow to revoke the last valid user ID. To change a user ID is better to first add the new user ID, then revoke the old one, and finally publish the key.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_revuid_start (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_revuid_start initiates a gpgme_op_revuid operation; see there for details. It must be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

-- Function: gpgme_error_t gpgme_op_set_ui_flag (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, const char *NAME, const char *VALUE);
The function `gpgme_op_set_uid_flag` is used to set flags on a user ID from the OpenPGP key given by `KEY`. Setting flags on user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `CTX` must be set to OpenPGP.

`KEY` specifies the key to operate on. This parameter is required.

`USERID` is the user ID of the key to be manipulated. This user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. This is a required parameter.

`NAME` names the flag which is to be changed. The only currently supported flag is:

`primary`

This sets the primary key flag on the given user ID. All other primary key flag on other user IDs are removed. `VALUE` must be given as NULL. For technical reasons this function bumps the creation timestamp of all affected self-signatures up by one second. At least GnuPG version 2.1.20 is required.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.

```
-- Function: gpgme_error_t gpgme_op_set_uid_flag_start
    (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID,
     cons char *NAME, cons char *VALUE);
```

The function `gpgme_op_set_uid_flag_start` initiates a `gpgme_op_set_uid_flag` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:::

```
-- Function: gpgme_error_t gpgme_op_genkey (gpgme_ctx_t CTX,
    const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)
```

The function `gpgme_op_genkey` generates a new key pair in the context `CTX`. The meaning of `PUBLIC` and `SECRET` depends on the crypto backend.

GPG does not support `PUBLIC` and `SECRET`, they should be NULL. GnuPG will generate a key pair and add it to the standard key ring.
The fingerprint of the generated key is available with gpgme_op_genkey_result.

GpgSM requires PUBLIC to be a writable data object. GpgSM will generate a secret key (which will be stored by gpg-agent, and return a certificate request in PUBLIC, which then needs to be signed by the certification authority and imported before it can be used. GpgSM does not make the fingerprint available.

The argument PARMS specifies parameters for the key in an string that looks something like XML. The details about the format of PARMS are specific to the crypto engine used by CTX. The first line of the parameters must be <GnupgKeyParams format="internal"> and the last line must be </GnupgKeyParams>. Every line in between the first and last lines is treated as a Header: Value pair. In particular, no XML escaping is necessary if you need to include the characters &, >, or &.

Here is an example for GnuPG as the crypto engine (all parameters of OpenPGP key generation are documented in the GPG manual):

```xml
<GnupgKeyParms format="internal">
  Key-Type: default
  Subkey-Type: default
  Name-Real: Joe Tester
  Name-Comment: with stupid passphrase
  Name-Email: joe@foo.bar
  Expire-Date: 0
  Passphrase: abc
</GnupgKeyParms>
```

Here is an example for GpgSM as the crypto engine (all parameters of OpenPGP key generation are documented in the GPGSM manual):

```xml
<GnupgKeyParms format="internal">
  Key-Type: RSA
  Key-Length: 1024
  Name-DN: C=de,O=g10 code,OU=Testlab,CN=Joe 2 Tester
  Name-Email: joe@foo.bar
</GnupgKeyParms>
```

Strings should be given in UTF-8 encoding. The only format supported for now is internal. The content of the GnupgKeyParms container is passed verbatim to the crypto backend. Control statements are not allowed.

After the operation completed successfully, the result can be retrieved with gpgme_op_genkey_result.
The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if PARMS is not a well-formed string (e.g. does not have the expected tag-like headers and footers), GPG_ERR_NOT_SUPPORTED if PUBLIC or SECRET is not valid, and GPG_ERR_GENERAL if no key was created by the backend.

-- Function: gpgme_error_t gpgme_op_genkey_start (gpgme_ctx_t CTX, const char *PARMS, gpgme_data_t PUBLIC, gpgme_data_t SECRET)

The function gpgme_op_genkey_start initiates a gpgme_op_genkey operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if PARMS is not a valid XML string, and GPG_ERR_NOT_SUPPORTED if PUBLIC or SECRET is not NULL.

-- Data type: gpgme_genkey_result_t

This is a pointer to a structure used to store the result of a gpgme_op_genkey operation. After successfully generating a key, you can retrieve the pointer to the result with gpgme_op_genkey_result. The structure contains the following members:

- unsigned int primary : 1
  This flag is set to 1 if a primary key was created and to 0 if not.

- unsigned int sub : 1
  This flag is set to 1 if a subkey was created and to 0 if not.

- unsigned int uid : 1
  This flag is set to 1 if a user ID was created and to 0 if not.

- char *fpr
  This is the fingerprint of the key that was created. If both a primary and a subkey were generated, the fingerprint of the primary key will be returned. If the crypto engine does not provide the fingerprint, fpr will be a null pointer.

  gpgme_data_t pubkey
  SINCE: 1.7.0
This will eventually be used to return the public key. It is currently not used.

gpgme_data_t seckey
SINCE: 1.7.0

This will eventually be used to return the secret key. It is currently not used.

-- Function: gpgme_genkey_result_t gpgme_op_genkey_result
(gpgme_ctx_t CTX)

The function gpgme_op_genkey_result returns a
gpgme_genkey_result_t pointer to a structure holding the result
of a gpgme_op_genkey operation. The pointer is only valid if the
last operation on the context was a gpgme_op_genkey or
gpgme_op_genkey_start operation, and if this operation finished
successfully. The returned pointer is only valid until the next
operation is started on the context.


7.5.6 Signing Keys

------------------

Key signatures are a unique concept of the OpenPGP protocol. They can be used to certify the validity of a key and are used to create the Web-of-Trust (WoT). Instead of using the gpgme_op_interact function along with a finite state machine, GPGME provides a convenient function to create key signatures when using modern GnuPG versions.

-- Function: gpgme_error_t gpgme_op_keysign (gpgme_ctx_t CTX,
gpgme_key_t KEY, const char *USERID, unsigned long EXPIRES,
unsigned int FLAGS);

SINCE: 1.7.0

The function gpgme_op_keysign adds a new key signature to the public key KEY. This function requires at least version 2.1.12 of GnuPG.

CTX is the usual context which describes the protocol to use (which must be OpenPGP) and has also the list of signer keys to be used for the signature. The common case is to use the default key for signing other keys. If another key or more than one key shall be used for a key signature, gpgme_signers_add can be used. *Note Selecting Signers::.
KEY specifies the key to operate on.

USERID selects the user ID or user IDs to be signed. If USERID is set to NULL all valid user IDs are signed. The user ID must be given verbatim because the engine does an exact and case sensitive match. Thus the uid field from the user ID object (gpgme_user_id_t) is to be used. To select more than one user ID put them all into one string separated by linefeeds characters (\n) and set the flag GPGME_KEYSIGN_LFSEP.

EXPIRES specifies the expiration time of the new signature in seconds. The common case is to use 0 to not set an expiration date. However, if the configuration of the engine defines a default expiration for key signatures, that is still used unless the flag GPGME_KEYSIGN_NOEXPIRE is used. Note that this parameter takes an unsigned long value and not a time_t to avoid problems on systems which use a signed 32 bit time_t. Note further that the OpenPGP protocol uses 32 bit values for timestamps and thus can only encode dates up to the year 2106.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME_KEYSIGN_LOCAL
  SINCE: 1.7.0

    Instead of creating an exportable key signature, create a key signature which is is marked as non-exportable.

GPGME_KEYSIGN_LFSEP
  SINCE: 1.7.0

    Although linefeeds are uncommon in user IDs this flag is required to explicitly declare that USERID may contain several linefeed separated user IDs.

GPGME_KEYSIGN_NOEXPIRE

    Force the creation of a key signature without an expiration date. This overrides EXPIRE and any local configuration of the engine.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_keysign_start (gpgme_ctx_t CTX, gpgme_key_t KEY, const char *USERID, unsigned long EXPIRES, unsigned int FLAGS);
The function `gpgme_op_keysign_start` initiates a `gpgme_op_keysign` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:.*

Exporting keys means the same as running `gpg` with the command `--export`. However, a mode flag can be used to change the way the export works. The available mode flags are described below, they may be or-ed together.

**GPGME_EXPORT_MODE_EXTERN**
- If this bit is set, the output is send directly to the default keyserver. This is currently only allowed for OpenPGP keys. It is good practise to not send more than a few dozens key to a keyserver at one time. Using this flag requires that the KEYDATA argument of the export function is set to NULL.

**GPGME_EXPORT_MODE_MINIMAL**
- SINCE: 1.3.1
- If this bit is set, the smallest possible key is exported. For OpenPGP keys it removes all signatures except for the latest self-signatures. For X.509 keys it has no effect.

**GPGME_EXPORT_MODE_SECRET**
- SINCE: 1.6.0
- Instead of exporting the public key, the secret key is exported. This may not be combined with GPGME_EXPORT_MODEEXTERN. For X.509 the export format is PKCS#8.

**GPGME_EXPORT_MODE_RAW**
- SINCE: 1.6.0
- If this flag is used with GPGME_EXPORT_MODE_SECRET for an X.509 key the export format will be changed to PKCS#1. This flag may not be used with OpenPGP.

**GPGME_EXPORT_MODE_PKCS12**
If this flag is used with GPGME_EXPORT_MODE_SECRET for an X.509 key the export format will be changed to PKCS#12 which also includes the certificate. This flag may not be used with OpenPGP.

GPGME_EXPORT_MODE_NOUID
SINCE: 1.12.0 - experimental Do not export user ids. Works only with certain gpg version.

-- Function: gpgme_error_t gpgme_op_export (gpgme_ctx_t CTX,
   const char *PATTERN, gpgme_export_mode_t MODE,
   gpgme_data_t KEYDATA)
The function gpgme_op_export extracts public keys and returns them in the data buffer KEYDATA. The output format of the key data returned is determined by the ASCII armor attribute set for the context CTX, or, if that is not set, by the encoding specified for KEYDATA.

If PATTERN is NULL, all available keys are returned. Otherwise, PATTERN contains an engine specific expression that is used to limit the list to all keys matching the pattern.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_start (gpgme_ctx_t CTX,
   const char *PATTERN, gpgme_export_mode_t MODE,
   gpgme_data_t KEYDATA)
The function gpgme_op_export_start initiates a gpgme_op_export operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if KEYDATA is not a valid empty data buffer.

-- Function: gpgme_error_t gpgme_op_export_ext (gpgme_ctx_t CTX,
   const char *PATTERN[], gpgme_export_mode_t MODE,
   gpgme_data_t KEYDATA)
The function gpgme_op_export extracts public keys and returns them in the data buffer KEYDATA. The output format of the key data returned is determined by the ASCII armor attribute set for the context CTX, or, if that is not set, by the encoding specified for
If PATTERN or *PATTERN is NULL, all available keys are returned.
Otherwise, PATTERN is a NULL terminated array of strings that are
used to limit the list to all keys matching at least one of the
patterns verbatim.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the
operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is
not a valid empty data buffer, and passes through any errors that
are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_ext_start (gpgme_ctx_t CTX,
const char *PATTERN[, gpgme_export_mode_t MODE,
gpgme_data_t KEYDATA)
The function gpgme_op_export_ext_start initiates a
gpgme_op_export_ext operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be started successfully, and GPG_ERR_INV_VALUE if
KEYDATA is not a valid empty data buffer.

-- Function: gpgme_error_t gpgme_op_export_keys (gpgme_ctx_t CTX,
gpgme_key_t keys[, gpgme_export_mode_t MODE,
gpgme_data_t KEYDATA)
SINCE: 1.2.0

The function gpgme_op_export_keys extracts public keys and
returns them in the data buffer KEYDATA. The output format of the
key data returned is determined by the ASCII armor attribute set
for the context CTX, or, if that is not set, by the encoding
specified for KEYDATA.

The keys to export are taken form the NULL terminated array KEYS.
Only keys of the currently selected protocol of CTX which do have a
fingerprint set are considered for export. Other keys specified by
the KEYS are ignored. In particular OpenPGP keys retrieved via an
external key listing are not included.

MODE is usually 0; other values are described above.

The function returns the error code GPG_ERR_NO_ERROR if the
operation completed successfully, GPG_ERR_INV_VALUE if KEYDATA is
not a valid empty data buffer, GPG_ERR_NO_DATA if no useful keys
are in KEYS and passes through any errors that are reported by the
crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_export_keys_start (gpgme_ctx_t CTX, 
gpgme_key_t KEYS[], gpgme_export_mode_t MODE, 
gpgme_data_t KEYDATA)
SINCE: 1.2.0

The function gpgme_op_export_keys_start initiates a 
gpgme_op_export_ext operation. It can be completed by calling 
gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the 
operation could be started successfully, and GPG_ERR_INV_VALUE if 
KEYDATA is not a valid empty data buffer, GPG_ERR_NO_DATA if no 
useful keys are in KEYS and passes through any errors that are 
reported by the crypto engine support routines.


7.5.8 Importing Keys

------------------------

Importing keys means the same as running gpg with the command 
--import.

-- Function: gpgme_error_t gpgme_op_import (gpgme_ctx_t CTX, 
gpgme_data_t KEYDATA)
The function gpgme_op_import adds the keys in the data buffer 
KEYDATA to the key ring of the crypto engine used by CTX. The 
format of KEYDATA can be ASCII armored, for example, but the 
details are specific to the crypto engine.

After the operation completed successfully, the result can be 
retrieved with gpgme_op_import_result.

The function returns the error code GPG_ERR_NO_ERROR if the 
import was completed successfully, GPG_ERR_INV_VALUE if KEYDATA 
if CTX or KEYDATA is not a valid pointer, and GPG_ERR_NO_DATA if 
KEYDATA is an empty data buffer.

-- Function: gpgme_error_t gpgme_op_import_start (gpgme_ctx_t CTX, 
gpgme_data_t KEYDATA)
The function gpgme_op_import_start initiates a gpgme_op_import 
operation. It can be completed by calling gpgme_wait on the 
context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the
import could be started successfully, GPG_ERR_INV_VALUE if CTX or
KEYDATA is not a valid pointer, and GPG_ERR_NO_DATA if KEYDATA is
an empty data buffer.

-- Function: gpgme_error_t gpgme_op_import_keys (gpgme_ctx_t CTX,
gpgme_key_t *KEYS)
SINCE: 1.2.0

The function gpgme_op_import_keys adds the keys described by the
NULL terminated array KEYS to the key ring of the crypto engine
used by CTX. It is used to actually import and make keys permanent
which have been retrieved from an external source (i.e. using
GPGME_KEYLIST_MODE_EXTERN) earlier. The external keylisting must
have been made with the same context configuration (in particular
the same home directory). (1) Note that for OpenPGP this may
require another access to the keys server over the network.

Only keys of the currently selected protocol of CTX are considered
for import. Other keys specified by the KEYS are ignored. As of
now all considered keys must have been retrieved using the same
method, i.e. the used key listing mode must be identical.

After the operation completed successfully, the result can be
retrieved with gpgme_op_import_result.

To move keys from one home directory to another, export and import
the keydata using gpgme_op_export and gpgme_op_import.

The function returns the error code GPG_ERR_NO_ERROR if the
import was completed successfully, GPG_ERR_INV_VALUE if CTX is
not a valid pointer, GPG_ERR_CONFLICT if the key listing mode
does not match, and GPG_ERR_NO_DATA if no keys are considered for
export.

-- Function: gpgme_error_t gpgme_op_import_keys_start (gpgme_ctx_t CTX,
gpgme_key_t *KEYS)
SINCE: 1.2.0

The function gpgme_op_import_keys_start initiates a
gpgme_op_import_keys operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the
import was completed successfully, GPG_ERR_INV_VALUE if KEYDATA
if CTX or KEYDATA is not a valid pointer, GPG_ERR_CONFLICT if the
key listing mode does not match, and GPG_ERR_NO_DATA if no keys
are considered for export.
-- Data type: gpgme_import_status_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_import operation. For each considered key one status is added that contains information about the result of the import. The structure contains the following members:

gpgme_import_status_t next
    This is a pointer to the next status structure in the linked list, or NULL if this is the last element.

cchar *fpr
    This is the fingerprint of the key that was considered.

gpgme_error_t result
    If the import was not successful, this is the error value that caused the import to fail. Otherwise the error code is GPG_ERR_NO_ERROR.

unsigned int status
    This is a bit-wise OR of the following flags that give more information about what part of the key was imported. If the key was already known, this might be 0.

    GPGME_IMPORT_NEW
        The key was new.

    GPGME_IMPORT_UID
        The key contained new user IDs.

    GPGME_IMPORT_SIG
        The key contained new signatures.

    GPGME_IMPORT_SUBKEY
        The key contained new sub keys.

    GPGME_IMPORT_SECRET
        The key contained a secret key.

-- Data type: gpgme_import_result_t
This is a pointer to a structure used to store the result of a gpgme_op_import operation. After a successful import operation, you can retrieve the pointer to the result with gpgme_op_import_result. The structure contains the following members:

int considered
    The total number of considered keys.
int no_user_id
The number of keys without user ID.

int imported
The total number of imported keys.

int imported_rsa
The number of imported RSA keys.

int unchanged
The number of unchanged keys.

int new_user_ids
The number of new user IDs.

int new_sub_keys
The number of new sub keys.

int new_signatures
The number of new signatures.

int new_revocations
The number of new revocations.

int secret_read
The total number of secret keys read.

int secret_imported
The number of imported secret keys.

int secret_unchanged
The number of unchanged secret keys.

int not_imported
The number of keys not imported.

gpgme_import_status_t imports
A list of gpgme_import_status_t objects which contain more
information about the keys for which an import was attempted.

int skipped_v3_keys
For security reasons modern versions of GnuPG do not anymore
support v3 keys (created with PGP 2.x) and ignores them on
import. This counter provides the number of such skipped v3
keys.

-- Function: gpgme_import_result_t gpgme_op_import_result
 (gpgme_ctx_t CTX)
The function gpgme_op_import_result returns a gpgme_import_result_t pointer to a structure holding the result of a gpgme_op_import operation. The pointer is only valid if the last operation on the context was a gpgme_op_import or gpgme_op_import_start operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.

---------- Footnotes ----------

(1) Thus it is a replacement for the usual workaround of exporting and then importing a key to make an X.509 key permanent.


7.5.9 Deleting Keys

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-- Function: gpgme_error_t gpgme_op_delete_ext (gpgme_ctx_t CTX, const gpgme_key_t KEY, unsigned int FLAGS)
    SINCE: 1.9.1

The function gpgme_op_delete_ext deletes the key KEY from the key ring of the crypto engine used by CTX.

FLAGS can be set to the bit-wise OR of the following flags:

GPGME_DELETE_ALLOW_SECRET
    SINCE: 1.9.1

If not set, only public keys are deleted. If set, secret keys are deleted as well, if that is supported.

GPGME_DELETE_FORCE
    SINCE: 1.9.1

If set, the user is not asked to confirm the deletion.

The function returns the error code GPG_ERR_NO_ERROR if the key was deleted successfully, GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer, GPG_ERR_NO_PUBKEY if KEY could not be found in the keyring, GPG_ERR_AMBIGUOUS_NAME if the key was not specified unambiguously, and GPG_ERR_CONFLICT if the secret key for KEY is available, but ALLOW_SECRET is zero.

-- Function: gpgme_error_t gpgme_op_delete_ext_start (gpgme_ctx_t CTX,
const gpgme_key_t KEY, unsigned int FLAGS)
SINCE: 1.9.1

The function gpgme_op_delete_ext_start initiates a
gpgme_op_delete operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion::.

The function returns the error code GPG_ERR_NO_ERROR if the
operation was started successfully, and GPG_ERR_INV_VALUE if CTX
or KEY is not a valid pointer.

The following functions allow only to use one particular flag.

-- Function: gpgme_error_t gpgme_op_delete (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, int ALLOW_SECRET)
Similar to gpgme_op_delete_ext, but only the flag
GPGME_DELETE_ALLOW_SECRET can be provided.

-- Function: gpgme_error_t gpgme_op_delete_start (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, unsigned int FLAGS)
Similar to gpgme_op_delete_ext_start, but only the flag
GPGME_DELETE_ALLOW_SECRET can be provided.

Management

7.5.10 Changing Passphrases
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-- Function: gpgme_error_t gpgme_op_passwd (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, unsigned int FLAGS)
SINCE: 1.3.0

The function gpgme_op_passwd changes the passphrase of the
private key associated with KEY. The only allowed value for FLAGS
is 0. The backend engine will usually popup a window to ask for
the old and the new passphrase. Thus this function is not useful
in a server application (where passphrases are not required
anyway).

Note that old gpg engines (before version 2.0.15) do not support
this command and will silently ignore it.

-- Function: gpgme_error_t gpgme_op_passwd_start (gpgme_ctx_t CTX,
    const gpgme_key_t KEY, unsigned int FLAGS)
The function gpgme_op_passwd_start initiates a gpgme_op_passwd operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns 0 if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.


7.5.11 Changing TOFU Data

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The OpenPGP engine features a Trust-On-First-Use (TOFU) key validation model. For resolving conflicts it is necessary to declare the policy for a key. See the GnuPG manual for details on the TOFU implementation.

-- Data type: enum gpgme_tofu_policy_t
   SINCE: 1.7.0

The gpgme_tofu_policy_t type specifies the set of possible policy values that are supported by GPGME:

- **GPGME_TOFU_POLICY_AUTO**
  Set the policy to auto.
- **GPGME_TOFU_POLICY_GOOD**
  Set the policy to good.
- **GPGME_TOFU_POLICY_BAD**
  Set the policy to bad.
- **GPGME_TOFU_POLICY_ASK**
  Set the policy to ask.
- **GPGME_TOFU_POLICY_UNKNOWN**
  Set the policy to unknown.

To change the policy for a key the following functions can be used:

-- Function: gpgme_error_t gpgme_op_tofu_policy (gpgme_ctx_t CTX,
   const gpgme_key_t KEY, gpgme_tofu_policy_t POLICY)
   SINCE: 1.7.0

The function gpgme_op_tofu_policy changes the TOFU policy of KEY. The valid values for POLICY are listed above. As of now this function does only work for OpenPGP and requires at least version
2.1.10 of GnuPG.

The function returns zero on success, GPG_ERR_NOT_SUPPORTED if the engine does not support the command, or a bunch of other error codes.

-- Function: gpgme_error_t gpgme_op_tofu_policy_start (gpgme_ctx_t CTX,
         const gpgme_key_t KEY, gpgme_tofu_policy_t POLICY)

SINCE: 1.7.0

The function gpgme_op_tofu_policy_start initiates a
gpgme_op_tofu_policy operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion:.*

The function returns 0 if the operation was started successfully,
and an error code if one of the arguments is not valid or the
operation could not be started.

File: gpgme.info, Node: Advanced Key Editing, Prev: Changing TOFU Data, Up: Key Management

7.5.12 Advanced Key Editing
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-- Data type: gpgme_error_t (*gpgme_interact_cb_t) (void *HANDLE,
         const char *STATUS, const char *ARGS, int FD)

SINCE: 1.7.0

The gpgme_interact_cb_t type is the type of functions which GPGME calls if a key interact operation is on-going. The status keyword STATUS and the argument line ARGS are passed through by GPGME from the crypto engine. An empty string represents EOF. The file descriptor FD is -1 for normal status messages. If STATUS indicates a command rather than a status message, the response to the command should be written to FD. The HANDLE is provided by the user at start of operation.

The function should return GPG_ERR_FALSE if it did not handle the status code, 0 for success, or any other error value.

-- Function: gpgme_error_t gpgme_op_interact (gpgme_ctx_t CTX,
         gpgme_key_t KEY, unsigned int FLAGS, gpgme_interact_cb_t FNC,
         void *HANDLE, gpgme_data_t OUT)

SINCE: 1.7.0
The function gpgme_op_interact processes the key KEY interactively, using the interact callback function FNC with the handle HANDLE. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object OUT.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by GPGME.

FLAGS modifies the behaviour of the function; the only defined bit value is:

GPGME_INTERACT_CARD
  SINCE: 1.7.0

This is used for smartcard based keys and uses gpgs --card-edit command.

The function returns 0 if the edit operation completes successfully, GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.

-- Function: gpgme_error_t gpgme_op_interact_start (gpgme_ctx_t CTX, gpgme_key_t KEY, unsigned int FLAGS, gpgme_interact_cb_t FNC, void *HANDLE, gpgme_data_t OUT)
  SINCE: 1.7.0

The function gpgme_op_interact_start initiates a gpgme_op_interact operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:.*

The function returns 0 if the operation was started successfully, and GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer.


7.6 Trust Item Management
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*Caution:* The trust items interface is experimental.

-- Data type: gpgme_trust_item_t

The gpgme_trust_item_t type is a pointer to a trust item object.

It has the following members:
char *keyid
   This is a string describing the key to which this trust items
   belongs.

int type
   This is the type of the trust item. A value of 1 refers to a
   key, a value of 2 refers to a user ID.

int level
   This is the trust level.

char *owner_trust
   The owner trust if type is 1.

char *validity
   The calculated validity.

char *name
   The user name if type is 2.

* Menu:

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

File: gpgme.info, Node: Listing Trust Items, Next: Manipulating Trust Items, Up: Trust Item Management

7.6.1 Listing Trust Items
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-- Function: gpgme_error_t gpgme_op_trustlist_start (gpgme_ctx_t CTX,
   const char *PATTERN, int MAX_LEVEL)
   The function gpgme_op_trustlist_start initiates a trust item
   listing operation inside the context CTX. It sets everything up so
   that subsequent invocations of gpgme_op_trustlist_next return the
   trust items in the list.

   The string PATTERN contains an engine specific expression that is
   used to limit the list to all trust items matching the pattern. It
   can not be the empty string.

   The argument MAX_LEVEL is currently ignored.

   The context will be busy until either all trust items are received
   (and gpgme_op_trustlist_next returns GPG_ERR_EOF), or
   gpgme_op_trustlist_end is called to finish the operation.
The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_trustlist_next (gpgme_ctx_t CTX, gpgme_trust_item_t *R_ITEM)

The function gpgme_op_trustlist_next returns the next trust item in the list created by a previous gpgme_op_trustlist_start operation in the context CTX. The trust item can be destroyed with gpgme_trust_item_release. *Note Manipulating Trust Items::

This is the only way to get at gpgme_trust_item_t objects in GPGME.

If the last trust item in the list has already been returned, gpgme_op_trustlist_next returns GPG_ERR_EOF.

The function returns the error code GPG_ERR_INV_VALUE if CTX or R_ITEM is not a valid pointer, and GPG_ERR_ENOMEM if there is not enough memory for the operation.

-- Function: gpgme_error_t gpgme_op_trustlist_end (gpgme_ctx_t CTX)

The function gpgme_op_trustlist_end ends a pending trust list operation in the context CTX.

The function returns the error code GPG_ERR_INV_VALUE if CTX is not a valid pointer, and GPG_ERR_ENOMEM if at some time during the operation there was not enough memory available.


7.6.2 Manipulating Trust Items

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-- Function: void gpgme_trust_item_ref (gpgme_trust_item_t ITEM)

The function gpgme_trust_item_ref acquires an additional reference for the trust item ITEM.

-- Function: void gpgme_trust_item_unref (gpgme_trust_item_t ITEM)

The function gpgme_trust_item_unref releases a reference for the trust item ITEM. If this was the last reference, the trust item will be destroyed and all resources associated to it will be released.

7.7 Crypto Operations
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Sometimes, the result of a crypto operation returns a list of invalid keys encountered in processing the request. The following structure is used to hold information about such a key.

-- Data type: gpgme_invalid_key_t

This is a pointer to a structure used to store a part of the result of a crypto operation which takes user IDs as one input parameter. The structure contains the following members:

  gpgme_invalid_key_t next
  This is a pointer to the next invalid key structure in the linked list, or NULL if this is the last element.

  char *fpr
  The fingerprint or key ID of the invalid key encountered.

  gpgme_error_t reason
  An error code describing the reason why the key was found invalid.

* Menu:

  * Decrypt:: Decrypting a ciphertext.
  * Verify:: Verifying a signature.
  * Decrypt and Verify:: Decrypting a signed ciphertext.
  * Sign:: Creating a signature.
  * Encrypt:: Encrypting a plaintext.

File: gpgme.info, Node: Decrypt, Next: Verify, Up: Crypto Operations

7.7.1 Decrypt
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-- Function: gpgme_error_t gpgme_op_decrypt (gpgme_ctx_t CTX,
  gpgme_data_t CIPHER, gpgme_data_t PLAIN)

The function gpgme_op_decrypt decrypts the ciphertext in the data object CIPHER and stores it into the data object PLAIN.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be decrypted successfully, GPG_ERR_INV_VALUE if CTX, CIPHER or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt, GPG_ERR_DECRYPT_FAILED if CIPHER is not a valid ciphertext,
GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_decrypt_start (gpgme_ctx_t CTX,
    gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt_start initiates a gpgme_op_decrypt operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CIPHER or PLAIN is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_decrypt_ext ( gpgme_ctx_t CTX,
    gpgme_decrypt_flags_t FLAGS, gpgme_data_t CIPHER,
    gpgme_data_t PLAIN)

SINCE: 1.8.0

The function gpgme_op_decrypt_ext is the same as gpgme_op_decrypt but has an additional argument FLAGS. If FLAGS is 0 both function behave identically.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_DECRYPT_VERIFY
    SINCE: 1.8.0

The GPGME_DECRYPT_VERIFY symbol specifies that this function shall exactly act as gpgme_op_decrypt_verify.

GPGME_DECRYPT_UNWRAP
    SINCE: 1.8.0

The GPGME_DECRYPT_UNWRAP symbol specifies that the output shall be an OpenPGP message with only the encryption layer removed. This requires GnuPG 2.1.12 and works only for OpenPGP. This is the counterpart to GPGME_ENCRYPT_WRAP.

The function returns the error codes as described for gpgme_op_decrypt respective gpgme_op_encrypt.

-- Function: gpgme_error_t gpgme_op_decrypt_ext_start ( 
    gpgme_ctx_t CTX, gpgme_decrypt_flags_t FLAGS,
    gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function `gpgme_op_decrypt_ext_start` initiates a `gpgme_op_decrypt_ext` operation. It can be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:*

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `CIPHER` or `PLAIN` is not a valid pointer.

-- Data type: `gpgme_recipient_t`

SINCE: 1.1.0

This is a pointer to a structure used to store information about the recipient of an encrypted text which is decrypted in a `gpgme_op_decrypt` operation. This information (except for the status field) is even available before the operation finished successfully, for example in a passphrase callback. The structure contains the following members:

- `gpgme_recipient_t next`
  This is a pointer to the next recipient structure in the linked list, or NULL if this is the last element.

- `gpgme_pubkey_algo_t`
  The public key algorithm used in the encryption.

- `char *keyid`
  This is the key ID of the key (in hexadecimal digits) used as recipient.

- `gpgme_error_t status`
  This is an error number with the error code `GPG_ERR_NO_SECKEY` if the secret key for this recipient is not available, and 0 otherwise.

-- Data type: `gpgme_decrypt_result_t`

This is a pointer to a structure used to store the result of a `gpgme_op_decrypt` operation. After successfully decrypting data, you can retrieve the pointer to the result with `gpgme_op_decrypt_result`. As with all result structures, it this structure shall be considered read-only and an application must not allocate such a structure on its own. The structure contains the following members:

- `char *unsupported_algorithm`
  If an unsupported algorithm was encountered, this string describes the algorithm that is not supported.
unsigned int wrong_key_usage : 1
   SINCE: 0.9.0 This is true if the key was not used according to
   its policy.

unsigned int legacy_cipher_nomdc : 1
   SINCE: 1.11.2 The message was made by a legacy algorithm
   without any integrity protection. This might be an old but
   legitimate message.

unsigned int is_mime : 1;
   SINCE: 1.11.0 The message claims that the content is a MIME
   object.

unsigned int is_de_vs : 1;
   SINCE: 1.10.0 The message was encrypted in a VS-NfD compliant
   way. This is a specification in Germany for a restricted
   communication level.

gpgme_recipient_t recipients
   SINCE: 1.1.0
   This is a linked list of recipients to which this message was
   encrypted.

char *file_name
   This is the filename of the original plaintext message file if
   it is known, otherwise this is a null pointer.

char *session_key
   SINCE: 1.8.0
   A textual representation (nul-terminated string) of the
   session key used in symmetric encryption of the message, if
   the context has been set to export session keys (see
   gpgme_set_ctx_flag, "export-session-key"), and a session key
   was available for the most recent decryption operation.
   Otherwise, this is a null pointer.

   You must not try to access this member of the struct unless
   gpgme_set_ctx_flag (ctx, "export-session-key") returns
   success or gpgme_get_ctx_flag (ctx, "export-session-key")
   returns true (non-empty string).

char *symkey_algo
   SINCE: 1.11.0
   A string with the symmetric encryption algorithm and mode
using the format "<algo>.<mode>". Note that the deprecated non-MDC encryption mode of OpenPGP is given as "PGPCFB".

-- Function: gpgme_decrypt_result_t gpgme_op_decrypt_result(gpgme_ctx_t CTX)
The function gpgme_op_decrypt_result returns a pointer to a structure holding the result of a gpgme_op_decrypt operation. The pointer is only valid if the last operation on the context was a gpgme_op_decrypt or gpgme_op_decrypt_start operation. If the operation failed this might be a NULL pointer. The returned pointer is only valid until the next operation is started on the context.


7.7.2 Verify

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-- Function: gpgme_error_t gpgme_op_verify(gpgme_ctx_t CTX,
   gpgme_data_t SIG, gpgme_data_t SIGNED_TEXT,
   gpgme_data_t PLAIN)
The function gpgme_op_verify verifies that the signature in the data object SIG is a valid signature. If SIG is a detached signature, then the signed text should be provided in SIGNED_TEXT and PLAIN should be a null pointer. Otherwise, if SIG is a normal (or cleartext) signature, SIGNED_TEXT should be a null pointer and PLAIN should be a writable data object that will contain the plaintext after successful verification.

The results of the individual signature verifications can be retrieved with gpgme_op_verify_result.

The function returns the error code GPG_ERR_NO_ERROR if the operation could be completed successfully, GPG_ERR_INV_VALUE if CTX, SIG or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if SIG does not contain any data to verify, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_verify_start(gpgme_ctx_t CTX,
   gpgme_data_t SIG, gpgme_data_t SIGNED_TEXT,
   gpgme_data_t PLAIN)
The function gpgme_op_verify_start initiates a gpgme_op_verify operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:*

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if
CTX, SIG or PLAIN is not a valid pointer, and GPG_ERR_NO_DATA if SIG or PLAIN does not contain any data to verify.

-- Data type: gpgme_sig_notation_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_verify operation. The structure contains the following members:

gpgme_sig_notation_t next
This is a pointer to the next new signature notation structure in the linked list, or NULL if this is the last element.

char *name
The name of the notation field. If this is NULL, then the member value will contain a policy URL.

int name_len
The length of the name field. For strings the length is counted without the trailing binary zero.

char *value
The value of the notation field. If name is NULL, then this is a policy URL.

int value_len
The length of the value field. For strings the length is counted without the trailing binary zero.

gpgme_sig_notation_flags_t flags
The accumulated flags field. This field contains the flags associated with the notation data in an accumulated form which can be used as an argument to the function gpgme_sig_notation_add. The value flags is a bitwise-or combination of one or multiple of the following bit values:

GPGME_SIG_NOTATION_HUMAN_READABLE
SINCE: 1.1.0

The GPGME_SIG_NOTATION_HUMAN_READABLE symbol specifies that the notation data is in human readable form

GPGME_SIG_NOTATION_CRITICAL
SINCE: 1.1.0

The GPGME_SIG_NOTATION_CRITICAL symbol specifies that the notation data is critical.

unsigned int human_readable : 1
This is true if the GPGME_SIG_NOTATION_HUMAN_READABLE flag is set and false otherwise. This flag is only valid for notation data, not for policy URLs.

unsigned int critical : 1
This is true if the GPGME_SIG_NOTATION_CRITICAL flag is set and false otherwise. This flag is valid for notation data and policy URLs.

-- Data type: gpgme_signature_t
This is a pointer to a structure used to store a part of the result of a gpgme_op_verify operation. The structure contains the following members:

  gpgme_signature_t next
  This is a pointer to the next new signature structure in the linked list, or NULL if this is the last element.

  gpgme_sigsum_t summary
  This is a bit vector giving a summary of the signature status. It provides an easy interface to a defined semantic of the signature status. Checking just one bit is sufficient to see whether a signature is valid without any restrictions. This means that you can check for GPGME_SIGSUM_VALID like this:

  if ((sig.summary & GPGME_SIGSUM_VALID))
  {
    ..do stuff if valid..
  }
  else
  {
    ..do stuff if not fully valid..
  }

The defined bits are:
GPGME_SIGSUM_VALID
  The signature is fully valid.

GPGME_SIGSUM_GREEN
  The signature is good but one might want to display some extra information. Check the other bits.

GPGME_SIGSUM_RED
  The signature is bad. It might be useful to check other bits and display more information, i.e. a revoked certificate might not render a signature invalid when the message was received prior to the cause for the revocation.
GPGME_SIGSUM_KEY_REVOKED
  The key or at least one certificate has been revoked.

GPGME_SIGSUM_KEY_EXPIRED
  The key or one of the certificates has expired. It is probably a good idea to display the date of the expiration.

GPGME_SIGSUM_SIG_EXPIRED
  The signature has expired.

GPGME_SIGSUM_KEY_MISSING
  Can't verify due to a missing key or certificate.

GPGME_SIGSUM_CRL_MISSING
  The CRL (or an equivalent mechanism) is not available.

GPGME_SIGSUM_CRL_TOO_OLD
  Available CRL is too old.

GPGME_SIGSUM_BAD_POLICY
  A policy requirement was not met.

GPGME_SIGSUM_SYS_ERROR
  A system error occurred.

GPGME_SIGSUM_TOFU_CONFLICT
  A TOFU conflict was detected.

char *fpr
  This is the fingerprint or key ID of the signature.

gpgme_error_t status
  This is the status of the signature. In particular, the following status codes are of interest:

GPG_ERR_NO_ERROR
  This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

GPG_ERR_SIG_EXPIRED
  This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

GPG_ERR_KEY_EXPIRED
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

GPG_ERR_CERT_REVOKED
This status indicates that the signature is valid but the key used to verify the signature has been revoked. For the combined result this status means that all signatures are valid and all keys are revoked.

GPG_ERR_BAD_SIGNATURE
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

GPG_ERR_NO_PUBKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

GPG_ERR_GENERAL
This status indicates that there was some other error which prevented the signature verification.

gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

unsigned long timestamp
The creation timestamp of this signature.

unsigned long exp_timestamp
The expiration timestamp of this signature, or 0 if the signature does not expire.

unsigned int wrong_key_usage : 1
This is true if the key was not used according to its policy.

unsigned int pka_trust : 2
This is set to the trust information gained by means of the PKA system. Values are:
0
No PKA information available or verification not possible.
1
PKA verification failed.
2
PKA verification succeeded.

3
Reserved for future use.

Depending on the configuration of the engine, this metric may also be reflected by the validity of the signature.

```c
unsigned int chain_model : 1
SINCE: 1.1.6
```

This is true if the validity of the signature has been checked using the chain model. In the chain model the time the signature has been created must be within the validity period of the certificate and the time the certificate itself has been created must be within the validity period of the issuing certificate. In contrast the default validation model checks the validity of signature as well at the entire certificate chain at the current time.

```c
gpgme_validity_t validity
  The validity of the signature.
```

```c
gpgme_error_t validity_reason
  If a signature is not valid, this provides a reason why.
```

```c
gpgme_pubkey_algo_t
  The public key algorithm used to create this signature.
```

```c
gpgme_hash_algo_t
  The hash algorithm used to create this signature.
```

```c
char *pka_address
  The mailbox from the PKA information or NULL.
```

```c
gpgme_key_t key
SINCE: 1.7.0
```

An object describing the key used to create the signature. This key object may be incomplete in that it only conveys information available directly with a signature. It may also be NULL if such information is not readily available.

```c
-- Data type: gpgme_verify_result_t
This is a pointer to a structure used to store the result of a gpgme_op_verify operation. After verifying a signature, you can retrieve the pointer to the result with gpgme_op_verify_result. If the operation failed this might be a NULL pointer. The structure contains the following member:
```
gpgme_signature_t signatures
A linked list with information about all signatures for which a verification was attempted.

char *file_name
This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer. Warning: The filename is not covered by the signature.

unsigned int is_mime : 1;
SINCE: 1.11.0

The message claims that the content is a MIME object.
Warning: This flag is not covered by the signature.

-- Function: gpgme_verify_result_t gpgme_op_verify_result
(gpgme_ctx_t CTX)
The function gpgme_op_verify_result returns a gpgme_verify_result_t pointer to a structure holding the result of a gpgme_op_verify operation. The pointer is only valid if the last operation on the context was a gpgme_op_verify, gpgme_op_verify_start, gpgme_op_decrypt_verify or gpgme_op_decrypt_verify_start operation, and if this operation finished successfully (for gpgme_op_decrypt_verify and gpgme_op_decrypt_verify_start, the error code GPG_ERR_NO_DATA counts as successful in this context). The returned pointer is only valid until the next operation is started on the context.


7.7.3 Decrypt and Verify
------------------------

-- Function: gpgme_error_t gpgme_op_decrypt_verify (gpgme_ctx_t CTX,
 gpgme_data_t CIPHER, gpgme_data_t PLAIN)
The function gpgme_op_decrypt_verify decrypts the ciphertext in the data object CIPHER and stores it into the data object PLAIN. If CIPHER contains signatures, they will be verified.

After the operation completed, gpgme_op_decrypt_result and gpgme_op_verify_result can be used to retrieve more information about the signatures.

If the error code GPG_ERR_NO_DATA is returned, CIPHER does not contain any data to decrypt. However, it might still be signed.
The information about detected signatures is available with gpgme_op_verify_result in this case.
The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be decrypted successfully, GPG_ERR_INV_VALUE if CTX, CIPHER or PLAIN is not a valid pointer, GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt, GPG_ERR_DECRYPT_FAILED if CIPHER is not a valid cipher text, GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_decrypt_verify_start
   (gpgme_ctx_t CTX, gpgme_data_t CIPHER, gpgme_data_t PLAIN)
   The function gpgme_op_decrypt_verify_start initiates a gpgme_op_decrypt_verify operation. It can be completed by calling gpgme_wait on the context. **Note Waiting For Completion:**

   The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, GPG_ERR_INV_VALUE if CTX, CIPHER, PLAIN or R_STAT is not a valid pointer, and GPG_ERR_NO_DATA if CIPHER does not contain any data to decrypt.

When processing mails it is sometimes useful to extract the actual mail address (the addr-spec) from a string. GPGME provides this helper function which uses the same semantics as the internal functions in GPGME and GnuPG:

-- Function: char * gpgme_addrspec_from_uid (const char *UID)

   SINCE: 1.7.1

   Return the mail address (called addr-spec in RFC-5322) from the string UID which is assumed to be a user id (called address in RFC-5322). All plain ASCII characters (i.e. those with bit 7 cleared) in the result are converted to lowercase. Caller must free the result using gpgme_free. Returns NULL if no valid address was found (in which case ERRNO is set to EINVAL) or for other errors.


7.7.4 Sign
----------

A signature can contain signatures by one or more keys. The set of keys used to create a signatures is contained in a context, and is applied to all following signing operations in this context (until the set is
changed).

* Menu:

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.

File: gpgme.info, Node: Selecting Signers, Next: Creating a Signature, Up: Sign

7.7.4.1 Selecting Signers

.....................

The key or the keys used to create a signature are stored in the context. The following functions can be used to manipulate this list. If no signer has been set into the context a default key is used for signing.

-- Function: void gpgme_signers_clear (gpgme_ctx_t CTX)
    The function gpgme_signers_clear releases a reference for each key on the signers list and removes the list of signers from the context CTX.

    Every context starts with an empty list.

-- Function: gpgme_error_t gpgme_signers_add (gpgme_ctx_t CTX, const gpgme_key_t KEY)
    The function gpgme_signers_add adds the key KEY to the list of signers in the context CTX.

    Calling this function acquires an additional reference for the key.

-- Function: unsigned int gpgme_signers_count (const gpgme_ctx_t CTX)
    SINCE: 1.4.3

    The function gpgme_signers_count returns the number of signer keys in the context CTX.

-- Function: gpgme_key_t gpgme_signers_enum (const gpgme_ctx_t CTX, int SEQ)
    The function gpgme_signers_enum returns the SEQth key in the list of signers in the context CTX. An additional reference is acquired for the user.

    If SEQ is out of range, NULL is returned.
7.7.4.2 Creating a Signature

............................

-- Data type: enum gpgme_sig_mode_t
The gpgme_sig_mode_t type is used to specify the desired type of a signature. The following modes are available:

GPGME_SIG_MODE_NORMAL
A normal signature is made, the output includes the plaintext and the signature.

GPGME_SIG_MODE_DETACH
A detached signature is made.

GPGME_SIG_MODE_CLEAR
A clear text signature is made. The ASCII armor and text mode settings of the context are ignored.

-- Function: gpgme_error_t gpgme_op_sign (gpgme_ctx_t CTX, gpgme_data_t PLAIN, gpgme_data_t SIG, gpgme_sig_mode_t MODE)
The function gpgme_op_sign creates a signature for the text in the data object PLAIN and returns it in the data object SIG. The type of the signature created is determined by the ASCII armor (or, if that is not set, by the encoding specified for SIG), the text mode attributes set for the context CTX and the requested signature mode MODE.

After the operation completed successfully, the result can be retrieved with gpgme_op_sign_result.

If an S/MIME signed message is created using the CMS crypto engine, the number of certificates to include in the message can be specified with gpgme_set INCLUDE_CERTS. *Note Included Certificates::.

The function returns the error code GPG_ERR_NO_ERROR if the signature could be created successfully, GPG_ERR_INV_VALUE if CTX, PLAIN or SIG is not a valid pointer, GPG_ERR_NO_DATA if the signature could not be created, GPG_ERR_BAD_PASSPHRASE if the passphrase for the secret key could not be retrieved, GPG_ERR_UNUSABLE_SECKEY if there are invalid signers, and passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_error_t gpgme_op_sign_start (gpgme_ctx_t CTX, gpgme_data_t PLAIN, gpgme_data_t SIG, gpgme_sig_mode_t MODE)
The function `gpgme_op_sign_start` initiates a `gpgme_op_sign` operation. It can be completed by calling `gpgme_wait` on the context. *Note Waiting For Completion:.*

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, and `GPG_ERR_INV_VALUE` if `CTX`, `PLAIN` or `SIG` is not a valid pointer.

--- Data type: `gpgme_new_signature_t`

This is a pointer to a structure used to store a part of the result of a `gpgme_op_sign` operation. The structure contains the following members:

- `gpgme_new_signature_t next`
  This is a pointer to the next new signature structure in the linked list, or NULL if this is the last element.

- `gpgme_sig_mode_t type`
  The type of this signature.

- `gpgme_pubkey_algo_t pubkey_algo`
  The public key algorithm used to create this signature.

- `gpgme_hash_algo_t hash_algo`
  The hash algorithm used to create this signature.

- `unsigned int sig_class`
  The signature class of this signature.

- `long int timestamp`
  The creation timestamp of this signature.

- `char *fpr`
  The fingerprint of the key which was used to create this signature.

--- Data type: `gpgme_sign_result_t`

This is a pointer to a structure used to store the result of a `gpgme_op_sign` operation. After successfully generating a signature, you can retrieve the pointer to the result with `gpgme_op_sign_result`. The structure contains the following members:

- `gpgme_invalid_key_t invalid_signers`
  A linked list with information about all invalid keys for which a signature could not be created.

- `gpgme_new_signature_t signatures`
A linked list with information about all signatures created.

-- Function: gpgme_sign_result_t gpgme_op_sign_result (gpgme_ctx_t CTX)
The function gpgme_op_sign_result returns a gpgme_sign_result_t
pointer to a structure holding the result of a gpgme_op_sign
operation. The pointer is only valid if the last operation on the
context was a gpgme_op_sign, gpgme_op_sign_start,
gpgme_op_encrypt_sign or gpgme_op_encrypt_sign_start operation.
If that operation failed, the function might return a NULL
pointer. The returned pointer is only valid until the next
operation is started on the context.

File: gpgme.info, Node: Signature Notation Data, Prev: Creating a Signature, Up: Sign

7.7.4.3 Signature Notation Data

Using the following functions, you can attach arbitrary notation data to
a signature. This information is then available to the user when the
signature is verified.

-- Function: void gpgme_sig_notation_clear (gpgme_ctx_t CTX)
SINCE: 1.1.0

The function gpgme_sig_notation_clear removes the notation data
from the context CTX. Subsequent signing operations from this
context will not include any notation data.

Every context starts with an empty notation data list.

-- Function: gpgme_error_t gpgme_sig_notation_add (gpgme_ctx_t CTX,
const char *NAME, const char *VALUE,
gpgme_sig_notation_flags_t FLAGS)
SINCE: 1.1.0

The function gpgme_sig_notation_add adds the notation data with
the name NAME and the value VALUE to the context CTX.

Subsequent signing operations will include this notation data, as
well as any other notation data that was added since the creation
of the context or the last gpgme_sig_notation_clear operation.

The arguments NAME and VALUE must be NUL-terminated strings in
human-readable form. The flag GPGME_SIG_NOTATION_HUMAN_READABLE
is implied (non-human-readable notation data is currently not
supported). The strings must be in UTF-8 encoding.
If NAME is NULL, then VALUE should be a policy URL.

The function gpgme_sig_notation_add returns the error code GPG_ERR_NO_ERROR if the notation data could be added successfully, GPG_ERR_INV_VALUE if CTX is not a valid pointer, or if NAME, VALUE and FLAGS are an invalid combination. The function also passes through any errors that are reported by the crypto engine support routines.

-- Function: gpgme_sig_notation_t gpgme_sig_notation_get
   (const gpgme_ctx_t CTX)
SINCE: 1.1.0

The function gpgme_sig_notation_get returns the linked list of notation data structures that are contained in the context CTX.

If CTX is not a valid pointer, or there is no notation data added for this context, NULL is returned.


7.7.5 Encrypt
------------

One plaintext can be encrypted for several recipients at the same time. The list of recipients is created independently of any context, and then passed to the encryption operation.

* Menu:

* Encrypting a Plaintext:: How to encrypt a plaintext.

File: gpgme.info, Node: Encrypting a Plaintext, Up: Encrypt

7.7.5.1 Encrypting a Plaintext
..............................

-- Function: gpgme_error_t gpgme_op_encrypt (gpgme_ctx_t CTX,
   gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS,
   gpgme_data_t PLAIN, gpgme_data_t CIPHER)

The function gpgme_op_encrypt encrypts the plaintext in the data object PLAIN for the recipients RECP and stores the ciphertext in the data object CIPHER. The type of the ciphertext created is determined by the ASCII armor (or, if that is not set, by the encoding specified for CIPHER) and the text mode attributes set for the context CTX.
RECP must be a NULL-terminated array of keys. The user must keep references for all keys during the whole duration of the call (but see gpgme_op_encrypt_start for the requirements with the asynchronous variant).

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

**GPGME_ENCRYPT_ALWAYS_TRUST**

The GPGME_ENCRYPT_ALWAYS_TRUST symbol specifies that all the recipients in RECP should be trusted, even if the keys do not have a high enough validity in the keyring. This flag should be used with care; in general it is not a good idea to use any untrusted keys.

**GPGME_ENCRYPT_NO_ENCRYPT_TO**

SINCE: 1.2.0

The GPGME_ENCRYPT_NO_ENCRYPT_TO symbol specifies that no default or hidden default recipients as configured in the crypto backend should be included. This can be useful for managing different user profiles.

**GPGME_ENCRYPT_NO_COMPRESS**

SINCE: 1.5.0

The GPGME_ENCRYPT_NO_COMPRESS symbol specifies that the plaintext shall not be compressed before it is encrypted. This is in some cases useful if the length of the encrypted message may reveal information about the plaintext.

**GPGME_ENCRYPT_PREPARE**

**GPGME_ENCRYPT_EXPECT_SIGN**

The GPGME_ENCRYPT_PREPARE symbol is used with the UI Server protocol to prepare an encryption (i.e. sending the PREP_ENCRYPT command). With the GPGME_ENCRYPT_EXPECT_SIGN symbol the UI Server is advised to also expect a sign command.

**GPGME_ENCRYPT_SYMMETRIC**

SINCE: 1.7.0

The GPGME_ENCRYPT_SYMMETRIC symbol specifies that the output should be additionally encrypted symmetrically even if recipients are provided. This feature is only supported for the OpenPGP crypto engine.

**GPGME_ENCRYPT_THROW_KEYIDS**
The GPGME_ENCRYPT_THROW_KEYIDS symbols requests that the identifiers for the decryption keys are not included in the ciphertext. On the receiving side, the use of this flag may slow down the decryption process because all available secret keys must be tried. This flag is only honored for OpenPGP encryption.

GPGME_ENCRYPT_WRAP
SINCE: 1.8.0

The GPGME_ENCRYPT_WRAP symbol specifies that the input is an OpenPGP message and not a plain data. This is the counterpart to GPGME_DECRYPT_UNWRAP.

GPGME_ENCRYPT_WANT_ADDRESS
SINCE: 1.11.0

The GPGME_ENCRYPT_WANT_ADDRESS symbol requests that all supplied keys or key specifications include a syntactically valid mail address. If this is not the case the operation is not even tried and the error code GPG_ERR_INV_USER_ID is returned. Only the address part of the key specification is conveyed to the backend. As of now the key must be specified using the RECPSTRING argument of the extended encrypt functions. This feature is currently only supported for the OpenPGP crypto engine.

If GPG_ERR_UNUSABLE_PUBKEY is returned, some recipients in RECP are invalid, but not all. In this case the plaintext might be encrypted for all valid recipients and returned in CIPHER (if this happens depends on the crypto engine). More information about the invalid recipients is available with gpgme_op_encrypt_result.

If RECP is NULL, symmetric rather than public key encryption is performed. Symmetrically encrypted cipher text can be deciphered with gpgme_op_decrypt. Note that in this case the crypto backend needs to retrieve a passphrase from the user. Symmetric encryption is currently only supported for the OpenPGP crypto backend.

The function returns the error code GPG_ERR_NO_ERROR if the ciphertext could be created successfully, GPG_ERR_INV_VALUE if CTX, RECP, PLAIN or CIPHER is not a valid pointer, GPG_ERR_UNUSABLE_PUBKEY if RECP contains some invalid recipients, GPG_ERR_BAD_PASSPHRASE if the passphrase for the symmetric key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.
-- Function: gpgme_error_t gpgme_op_encrypt_start (gpgme_ctx_t CTX,
gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS,
gpgme_data_t PLAIN, gpgme_data_t CIPHER)
The function gpgme_op_encrypt_start initiates a
gpgme_op_encrypt operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion:::

References to the keys only need to be held for the duration of
this call. The user can release its references to the keys after
this function returns, even if the operation is not yet finished.

The function returns the error code GPG_ERR_NO_ERROR if the
operation could be started successfully, GPG_ERR_INV_VALUE if
CTX, RSET, PLAIN or CIPHER is not a valid pointer, and
GPG_ERR_UNUSABLE_PUBKEY if RSET does not contain any valid
recipients.

-- Function: gpgme_error_t gpgme_op_encrypt_ext (gpgme_ctx_t CTX,
gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt with RECPSTRING
as additional parameter. If RECP is NULL and RECPSTRING is not
NULL, the latter is expected to be a linefeed delimited string with
the set of key specifications. In contrast to RECP the keys are
given directly as strings and there is no need to first create key
objects. Leading and trailing white space is remove from each line
in RECPSTRING. The keys are then passed verbatim to the backend
engine.

For the OpenPGP backend several special keywords are supported to
modify the operation. These keywords are given instead of a key
specification. The currently supported keywords are:

--hidden
--no-hidden
These keywords toggle between normal and hidden recipients for
all following key specifications. When a hidden recipient is
requested the gpg option -R (or -F in file mode) is used
instead of -r (-f in file mode).

--file
--no-file
These keywords toggle between regular and file mode for all
following key specification. In file mode the option -f or
-F is passed to gpg. At least GnuPG version 2.1.14 is
required to handle these options. The
GPGME_ENCRYPT_WANT_ADDRESS flag is ignored in file mode.

--

This keyword disables all keyword detection up to the end of
the string. All keywords are treated as verbatim arguments.

To create a RECPSTRING it is often useful to employ a strconcat
style function. For example this function creates a string to
encrypt to two keys:

    char *
    xbuild_recpstring (const char *key1, const char *key2)
    {
      char *result = gpgrt_strconcat ("--\n", key1, "\n", key2, NULL);
      if (!result)
        { perror ("strconcat failed"); exit (2); }
      return result;
    }

Note the use of the double dash here; unless you want to specify a
keyword, it is a good idea to avoid any possible trouble with key
specifications starting with a double dash. The used strconcat
function is available in Libgpg-error 1.28 and later; Libgpg-error
(aka Gpgrt) is a dependency of GPGME. The number of arguments to
gpgrt_strconcat is limited to 47 but that should always be
sufficient. In case a larger and non-fixed number of keys are to
be supplied the following code can be used:

    char *
    xbuild_long_recpstring (void)
    {
      gpgrt_stream_t memfp;
      const char *s;
      void *result;

      memfp = gpgrt_fopenmem (0, "w+b");
      if (!memfp)
        { perror ("fopenmem failed"); exit (2); }
      gpgrt_fputs ("--", memfp);
      while ((s = get_next_keyspec ()))
        {
          gpgrt_fputc (\n, memfp);
          gpgrt_fputs (s, memfp);
        }
      gpgrt_fputc (0, memfp);
    }
if (gpgrt_ferror (memfp))
    { perror ("writing to memstream failed"); exit (2); }
if (gpgrt_fclose_snatch (memfp, &result, NULL))
    { perror ("fclose_snatch failed"); exit (2); }
return result;
}

In this example get_next_keyspec is expected to return the next key to be added to the string. Please take care: Encrypting to a large number of recipients is often questionable due to security reasons and also for the technicality that all keys are currently passed on the command line to gpg which has as a platform specific length limitation.

-- Function: gpgme_error_t gpgme_op_encrypt_ext_start (gpgme_ctx_t CTX,
gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)

SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_start with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create key objects. The keys are passed verbatim to the backend engine.

-- Data type: gpgme_encrypt_result_t
This is a pointer to a structure used to store the result of a gpgme_op_encrypt operation. After successfully encrypting data, you can retrieve the pointer to the result with gpgme_op_encrypt_result. The structure contains the following members:

  gpgme_invalid_key_t invalid_recipients
    A linked list with information about all invalid keys for which the data could not be encrypted.

-- Function: gpgme_encrypt_result_t gpgme_op_encrypt_result
  (gpgme_ctx_t CTX)
The function gpgme_op_encrypt_result returns a gpgme_encrypt_result_t pointer to a structure holding the result of a gpgme_op_encrypt operation. The pointer is only valid if the last operation on the context was a gpgme_op_encrypt, gpgme_op_encrypt_start, gpgme_op_sign or gpgme_op_sign_start operation. If this operation failed, this might be a NULL
pointer. The returned pointer is only valid until the next operation is started on the context.

-- Function: gpgme_error_t gpgme_op_encrypt_sign (gpgme_ctx_t CTX,
gpgme_key_t RECP[], gpgme_encrypt_flags_t FLAGS,
gpgme_data_t PLAIN, gpgme_data_t CIPHER)
The function gpgme_op_encrypt_sign does a combined encrypt and sign operation. It is used like gpgme_op_encrypt, but the ciphertext also contains signatures for the signers listed in CTX.

The combined encrypt and sign operation is currently only available for the OpenPGP crypto engine.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_start
(gpgme_ctx_t CTX, gpgme_key_t RECP[],
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)
The function gpgme_op_encrypt_sign_start initiates a gpgme_op_encrypt_sign operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion::

The function returns the error code GPG_ERR_NO_ERROR if the operation could be started successfully, and GPG_ERR_INV_VALUE if CTX, RSET, PLAIN or CIPHER is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_ext (gpgme_ctx_t CTX,
gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)
SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_sign with RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

-- Function: gpgme_error_t gpgme_op_encrypt_sign_ext_start
(gpgme_ctx_t CTX, gpgme_key_t RECP[], const char *RECPSTRING,
gpgme_encrypt_flags_t FLAGS, gpgme_data_t PLAIN,
gpgme_data_t CIPHER)
SINCE: 1.11.0

This is an extended version of gpgme_op_encrypt_sign_start with
RECPSTRING as additional parameter. If RECP is NULL and RECPSTRING is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to RECP the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

7.8 Miscellaneous operations
============================

Here are some support functions which are sometimes useful.

* Menu:

* Running other Programs:: Running other Programs
* Using the Assuan protocol:: Using the Assuan protocol
* Checking for updates:: How to check for software updates

7.8.1 Running other Programs
-----------------------------

GPGME features an internal subsystem to run the actual backend engines. Along with data abstraction object this subsystem can be used to run arbitrary simple programs which even need not be related to cryptographic features. It may for example be used to run tools which are part of the GnuPG system but are not directly accessible with the GPGME API.

-- Function: gpgme_error_t gpgme_op_spawn (gpgme_ctx_t CTX, const char *FILE, const char *ARGV[], gpgme_data_t DATAIN, gpgme_data_t DATAOUT, gpgme_data_t DATAERR, unsigned int FLAGS)

SINCE: 1.5.0

The function gpgme_op_spawn runs the program FILE with the arguments taken from the NULL terminated array ARGV. If no arguments are required ARGV may be given as NULL. In the latter case or if argv[0] is the empty string, GPGME uses the basename of FILE for argv[0]. The file descriptors stdin, stdout, and stderr are connected to the data objects DATAIN, DATAOUT, and DATAERR. If NULL is passed for one of these data objects the
corresponding file descriptor is connected to /dev/null.

The value in FLAGS is a bitwise-or combination of one or multiple of the following bit values:

GPGME_SPAWN_DETACHED
SINCE: 1.5.0

Under Windows this flag inhibits the allocation of a new console for the program. This is useful for a GUI application which needs to call a command line helper tool.

GPGME_SPAWN_ALLOW_SET_FG
SINCE: 1.5.0

Under Windows this flag allows the called program to put itself into the foreground.

-- Function: gpgme_error_t gpgme_op_spawn_start (gpgme_ctx_t CTX, const char *FILE, const char *ARGV[], gpgme_data_t DATAIN, gpgme_data_t DATAOUT, gpgme_data_t DATAERR, unsigned int FLAGS)
SINCE: 1.5.0

This is the asynchronous variant of gpgme_op_spawn.

File: gpgme.info, Node: Using the Assuan protocol, Next: Checking for updates, Prev: Running other Programs, Up: Miscellaneous

7.8.2 Using the Assuan protocol
-----------------------------

The Assuan protocol can be used to talk to arbitrary Assuan servers. By default it is connected to the GnuPG agent, but it may be connected to arbitrary servers by using gpgme_ctx_set_engine_info, passing the location of the servers socket as FILE_NAME argument, and an empty string as HOME_DIR argument.

The Assuan protocol functions use three kinds of callbacks to transfer data:

-- Data type: gpgme_error_t (*gpgme_assuan_data_cb_t) (void *OPAQUE, const void *DATA, size_t DATALEN)
SINCE: 1.2.0
This callback receives any data sent by the server. OPAQUE is the pointer passed to `gpgme_op_assuan_transact_start`, DATA of length DATALEN refers to the data sent.

-- Data type: gpgme_error_t (*gpgme_assuan_inquire_cb_t) (void *OPAQUE, const char *NAME, const char *ARGS, gpgme_data_t *R_DATA)

SINCE: 1.2.0

This callback is used to provide additional data to the Assuan server. OPAQUE is the pointer passed to `gpgme_op_assuan_transact_start`, NAME and ARGS specify what kind of data the server requested, and R_DATA is used to return the actual data.

Note: Returning data is currently not implemented in GPGME.

-- Data type: gpgme_error_t (*gpgme_assuan_status_cb_t) (void *OPAQUE, const char *STATUS, const char *ARGS)

SINCE: 1.2.0

This callback receives any status lines sent by the server. OPAQUE is the pointer passed to `gpgme_op_assuan_transact_start`, STATUS and ARGS denote the status update sent.

-- Function: gpgme_error_t gpgme_op_assuan_transact_start
   (gpgme_ctx_t CTX, const char *COMMAND, gpgme_assuan_data_cb_t DATA_CB, void * DATA_CB_VALUE, gpgme_assuan_inquire_cb_t INQUIRE_CB, void * INQUIRE_CB_VALUE, gpgme_assuan_status_cb_t STATUS_CB, void * STATUS_CB_VALUE)

SINCE: 1.2.0

Send the Assuan COMMAND and return results via the callbacks. Any callback may be NULL. The result of the operation may be retrieved using `gpgme_wait_ext`.

Asynchronous variant.

-- Function: gpgme_error_t gpgme_op_assuan_transact_ext
   (gpgme_ctx_t CTX, const char *COMMAND, gpgme_assuan_data_cb_t DATA_CB, void * DATA_CB_VALUE, gpgme_assuan_inquire_cb_t INQUIRE_CB, void * INQUIRE_CB_VALUE, gpgme_assuan_status_cb_t STATUS_CB, void * STATUS_CB_VALUE, gpgme_error_t *OP_ERR)

Send the Assuan COMMAND and return results via the callbacks. The
result of the operation is returned in OP_ERR.

Synchronous variant.

File: gpgme.info, Node: Checking for updates, Prev: Using the Assuan protocol, Up: Miscellaneous

7.8.3 How to check for software updates
---------------------------------------

The GnuPG Project operates a server to query the current versions of software packages related to GnuPG. GPGME can be used to access this online database and check whether a new version of a software package is available.

-- Data type: gpgme_query_swdb_result_t
   SINCE: 1.8.0

This is a pointer to a structure used to store the result of a gpgme_op_query_swdb operation. After success full call to that function, you can retrieve the pointer to the result with gpgme_op_query_swdb_result. The structure contains the following member:

name
   This is the name of the package.

iversion
   The currently installed version or an empty string. This value is either a copy of the argument given to gpgme_op_query_swdb or the version of the installed software as figured out by GPGME or GnuPG.

created
   This gives the date the file with the list of version numbers has originally be created by the GnuPG project.

retrieved
   This gives the date the file was downloaded.

warning
   If this flag is set either an error has occurred or some of the information in this structure are not properly set. For example if the version number of the installed software could not be figured out, the update flag may not reflect a required update status.

update
If this flag is set an update of the software is available.

urgent
If this flag is set an available update is important.

noinfo
If this flag is set, no valid information could be retrieved.

unknown
If this flag is set the given name is not known.

tooold
If this flag is set the available information is not fresh enough.

tool
If this flag is set some other error has occurred.

version
The version string of the latest released version.

reldate
The release date of the latest released version.

-- Function: gpgme_error_t gpgme_op_query_swdb (gpgme_ctx_t CTX, const char *NAME, const char *IVERSION, gpgme_data_t RESERVED)

SINCE: 1.8.0

Query the software version database for software package NAME and check against the installed version given by IVERSION. If IVERSION is given as NULL a check is only done if GPGME can figure out the version by itself (for example when using "gpgme" or "gnupg"). If NULL is used for NAME the current gpgme version is checked. RESERVED must be set to 0.

-- Function: gpgme_query_swdb_result_t gpgme_op_query_swdb_result (gpgme_ctx_t CTX)

SINCE: 1.8.0

The function gpgme_op_query_swdb_result returns a gpgme_query_swdb_result_t pointer to a structure holding the result of a gpgme_op_query_swdb operation. The pointer is only valid if the last operation on the context was a successful call to gpgme_op_query_swdb. If that call failed, the result might be a NULL pointer. The returned pointer is only valid until the next operation is started on the context CTX.
Here is an example on how to check whether GnuPG is current:

```c
#include <gpgme.h>

int
main (void)
{
  gpg_error_t err;
  gpgme_ctx_t ctx;
  gpgme_query_swdb_result_t result;

  gpgme_check_version (NULL);
  err = gpgme_new (&ctx);
  if (err)
    fprintf (stderr, "error creating context: \%s\n", gpg_strerror (err));
  else
  {
    gpgme_set_protocol (ctx, GPGME_PROTOCOL_GPGCONF);

    err = gpgme_op_query_swdb (ctx, "gnupg", NULL, 0);
    if (err)
      fprintf (stderr, "error querying swdb: \%s\n", gpg_strerror (err));
    else
    {
      result = gpgme_op_query_swdb_result (ctx);
      if (!result)
        fprintf (stderr, "error querying swdb\n");
      else if (!result->warning && !result->update)
        printf ("GnuPG version %s is current\n", result->iversion);
      else if (!result->warning && result->update)
        printf ("GnuPG version %s can be updated to %s\n", result->iversion, result->version);
      else
        fprintf (stderr, "error finding the update status\n");
    }
    gpgme_release (ctx);
  }
  return 0;
}
```

File: gpgme.info,  Node: Run Control,  Prev: Miscellaneous,  Up: Contexts

7.9 Run Control

================
GPGME supports running operations synchronously and asynchronously. You can use asynchronous operation to set up a context up to initiating the desired operation, but delay performing it to a later point.

Furthermore, you can use an external event loop to control exactly when GPGME runs. This ensures that GPGME only runs when necessary and also prevents it from blocking for a long time.

* Menu:

* Waiting For Completion:: Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.

File: gpgme.info, Node: Waiting For Completion, Next: Using External Event Loops, Up: Run Control

7.9.1 Waiting For Completion
----------------------------

-- Function: gpgme_ctx_t gpgme_wait (gpgme_ctx_t CTX,
    gpgme_error_t *STATUS, int HANG)
   
The function gpgme_wait continues the pending operation within the context CTX. In particular, it ensures the data exchange between GPGME and the crypto backend and watches over the run time status of the backend process.

If HANG is true, the function does not return until the operation is completed or cancelled. Otherwise the function will not block for a long time.

The error status of the finished operation is returned in STATUS if gpgme_wait does not return NULL.

The CTX argument can be NULL. In that case, gpgme_wait waits for any context to complete its operation.

gpgme_wait can be used only in conjunction with any context that has a pending operation initiated with one of the gpgme_op_*_start functions except gpgme_op_keylist_start and gpgme_op_trustlist_start (for which you should use the corresponding gpgme_op_*_next functions). If CTX is NULL, all of such contexts are waited upon and possibly returned.
Synchronous operations running in parallel, as well as key and trust item list operations, do not affect gpgme_wait.

In a multi-threaded environment, only one thread should ever call gpgme_wait at any time, regardless of whether CTX is specified or
not. This means that all calls to this function should be fully
synchronized by locking primitives. It is safe to start
asynchronous operations while a thread is running in gpgme_wait.

The function returns the CTX of the context which has finished the
operation. If HANG is false, and the timeout expires, NULL is
returned and *status will be set to 0. If an error occurs,
NULL is returned and the error is returned in *status.

File: gpgme.info, Node: Using External Event Loops, Next: Cancellation, Prev: Waiting For Completion, Up:
Run Control

7.9.2 Using External Event Loops

GPGME hides the complexity of the communication between the library and
the crypto engine. The price of this convenience is that the calling
thread can block arbitrary long waiting for the data returned by the
crypto engine. In single-threaded programs, in particular if they are
interactive, this is an unwanted side-effect. OTOH, if gpgme_wait is
used without the HANG option being enabled, it might be called
unnecessarily often, wasting CPU time that could be used otherwise.

The I/O callback interface described in this section lets the user
take control over what happens when. GPGME will provide the user with
the file descriptors that should be monitored, and the callback
functions that should be invoked when a file descriptor is ready for
reading or writing. It is then the users responsibility to decide when
to check the file descriptors and when to invoke the callback functions.
Usually this is done in an event loop, that also checks for events in
other parts of the program. If the callback functions are only called
when the file descriptors are ready, GPGME will never block. This gives
the user more control over the program flow, and allows to perform other
tasks when GPGME would block otherwise.

By using this advanced mechanism, GPGME can be integrated smoothly
into GUI toolkits like GTK+ even for single-threaded programs.

* Menu:

* I/O Callback Interface:: How I/O callbacks are registered.
* Registering I/O Callbacks:: How to use I/O callbacks for a context.
* I/O Callback Example:: An example how to use I/O callbacks.
* I/O Callback Example GTK+:: How to use GPGME with GTK+.
* I/O Callback Example GDK:: How to use GPGME with GDK.
* I/O Callback Example Qt:: How to use GPGME with Qt.
7.9.2.1 I/O Callback Interface

..............................

-- Data type: gpgme_error_t (*gpgme_io_cb_t) (void *DATA, int FD)
  The gpgme_io_cb_t type is the type of functions which GPGME wants to register as I/O callback handlers using the gpgme_register_io_cb_t functions provided by the user.

  DATA and FD are provided by GPGME when the I/O callback handler is registered, and should be passed through to the handler when it is invoked by the user because it noticed activity on the file descriptor FD.

  The callback handler always returns 0, but you should consider the return value to be reserved for later use.

-- Data type: gpgme_error_t (*gpgme_register_io_cb_t) (void *DATA, int FD, int DIR, gpgme_io_cb_t FNC, void *FNC_DATA, void **TAG)
  The gpgme_register_io_cb_t type is the type of functions which can be called by GPGME to register an I/O callback function FNC for the file descriptor FD with the user. FNC_DATA should be passed as the first argument to FNC when the handler is invoked (the second argument should be FD). If DIR is 0, FNC should be called by the user when FD is ready for writing. If DIR is 1, FNC should be called when FD is ready for reading.

  DATA was provided by the user when registering the gpgme_register_io_cb_t function with GPGME and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the event loop to which the file descriptor should be added.

  GPGME will call this function when a crypto operation is initiated in a context for which the user has registered I/O callback handler functions with gpgme_set_io_cbs. It can also call this function when it is in an I/O callback handler for a file descriptor associated to this context.

  The user should return a unique handle in TAG identifying this I/O callback registration, which will be passed to the gpgme_register_io_cb_t function without interpretation when the file descriptor should not be monitored anymore.

-- Data type: void (*gpgme_remove_io_cb_t) (void *TAG)
The gpgme_remove_io_cb_t type is the type of functions which can be called by GPGME to remove an I/O callback handler that was registered before. TAG is the handle that was returned by the gpgme_register_io_cb_t for this I/O callback.

GPGME can call this function when a crypto operation is in an I/O callback. It will also call this function when the context is destroyed while an operation is pending.

-- Data type: enum gpgme_event_io_t
The gpgme_event_io_t type specifies the type of an event that is reported to the user by GPGME as a consequence of an I/O operation. The following events are defined:

GPGME_EVENT_START
The operation is fully initialized now, and you can start to run the registered I/O callback handlers now. Note that registered I/O callback handlers must not be run before this event is signalled. TYPE_DATA is NULL and reserved for later use.

GPGME_EVENT_DONE
The operation is finished, the last I/O callback for this operation was removed. The accompanying TYPE_DATA points to a struct gpgme_io_event_done_data variable that contains the status of the operation that finished. This event is signalled after the last I/O callback has been removed.

GPGME_EVENT_NEXT_KEY
In a gpgme_op_keylist_start operation, the next key was received from the crypto engine. The accompanying TYPE_DATA is a gpgme_key_t variable that contains the key with one reference for the user.

GPGME_EVENT_NEXT_TRUSTITEM
In a gpgme_op_trustlist_start operation, the next trust item was received from the crypto engine. The accompanying TYPE_DATA is a gpgme_trust_item_t variable that contains the trust item with one reference for the user.

-- Data type: void (*gpgme_event_io_cb_t) (void *DATA, gpgme_event_io_t TYPE, void *TYPE_DATA)
The gpgme_event_io_cb_t type is the type of functions which can be called by GPGME to signal an event for an operation running in a context which has I/O callback functions registered by the user.

DATA was provided by the user when registering the gpgme_event_io_cb_t function with GPGME and will always be passed.
as the first argument when registering a callback function. For example, the user can use this to determine the context in which this event has occurred.

TYPE will specify the type of event that has occurred. TYPE_DATA specifies the event further, as described in the above list of possible gpgme_event_io_t types.

GPGME can call this function in an I/O callback handler.


7.9.2.2 Registering I/O Callbacks

-- Data type: struct gpgme_io_cbs
This structure is used to store the I/O callback interface functions described in the previous section. It has the following members:

gpgme_register_io_cb_t add
This is the function called by GPGME to register an I/O callback handler. It must be specified.

void *add_priv
This is passed as the first argument to the add function when it is called by GPGME. For example, it can be used to determine the event loop to which the file descriptor should be added.

gpgme_remove_io_cb_t remove
This is the function called by GPGME to remove an I/O callback handler. It must be specified.

gpgme_event_io_cb_t event
This is the function called by GPGME to signal an event for an operation. It must be specified, because at least the start event must be processed.

void *event_priv
This is passed as the first argument to the event function when it is called by GPGME. For example, it can be used to determine the context in which the event has occurred.

-- Function: void gpgme_set_io_cbs (gpgme_ctx_t CTX,
struct gpgme_io_cbs *IO_CBS)
The function `gpgme_set_io_cbs` enables the I/O callback interface for the context `CTX`. The I/O callback functions are specified by `IO_CBS`.

If `IO_CBS->add` is NULL, the I/O callback interface is disabled for the context, and normal operation is restored.

-- Function: void gpgme_get_io_cbs (gpgme_ctx_t CTX, struct gpgme_io_cbs *IO_CBS)

The function `gpgme_get_io_cbs` returns the I/O callback functions set with `gpgme_set_io_cbs` in `IO_CBS`.


7.9.2.3 I/O Callback Example

............................

To actually use an external event loop, you have to implement the I/O callback functions that are used by GPGME to register and unregister file descriptors. Furthermore, you have to actually monitor these file descriptors for activity and call the appropriate I/O callbacks.

The following example illustrates how to do that. The example uses locking to show in which way the callbacks and the event loop can run concurrently. For the event loop, we use a fixed array. For a real-world implementation, you should use a dynamically sized structure because the number of file descriptors needed for a crypto operation in GPGME is not predictable.

```c
#include <assert.h>
#include <errno.h>
#include <stdlib.h>
#include <pthread.h>
#include <sys/types.h>
#include <gpgme.h>

/* The following structure holds the result of a crypto operation. */
struct op_result
{
    int done;
    gpgme_error_t err;
};

/* The following structure holds the data associated with one I/O callback. */
struct one_fd
```
The following functions implement the I/O callback interface.

```c
int fd;
int dir;
gpgme_io_cb_t fnc;
void *fnc_data;
void *loop;

struct event_loop
{
    pthread_mutex_t lock;
    #define MAX_FDS 32
    /* Unused slots are marked with FD being -1. */
    struct one_fd fds[MAX_FDS];
};

The following functions implement the I/O callback interface.

gpgme_error_t
add_io_cb (void *data, int fd, int dir, gpgme_io_cb_t fnc, void *fnc_data,
    void ***r_tag)
{
    struct event_loop *loop = data;
    struct one_fd *fds = loop->fds;
    int i;

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS; i++)
    {
        if (fds[i].fd == -1)
        {
            fds[i].fd = fd;
            fds[i].dir = dir;
            fds[i].fnc = fnc;
            fds[i].fnc_data = fnc_data;
            fds[i].loop = loop;
            break;
        }
    }
    pthread_mutex_unlock (&loop->lock);
    if (i == MAX_FDS)
        return gpg_error (GPG_ERR_GENERAL);
    *r_tag = &fds[i];
    return 0;
}

void
remove_io_cb (void *tag)
```
struct one_fd *fd = tag;
struct event_loop *loop = fd->loop;

pthread_mutex_lock (&loop->lock);
fd->fd = -1;
pthread_mutex_unlock (&loop->lock);
}

void
event_io_cb (void *data, gpgme_event_io_t type, void *type_data)
{
  struct op_result *result = data;

  /* We don't support list operations here. */
  if (type == GPGME_EVENT_DONE)
  {
    result->done = 1;
    result->err = *type_data;
  }
}

The final missing piece is the event loop, which will be presented next. We only support waiting for the success of a single operation.

int
do_select (struct event_loop *loop)
{
  fd_set rfds;
  fd_set wfds;
  int i, n;
  int any = 0;
  struct timeval tv;
  struct one_fd *fdlist = loop->fds;

  pthread_mutex_lock (&loop->lock);
  FD_ZERO (&rfds);
  FD_ZERO (&wfds);
  for (i = 0; i < MAX_FDS; i++)
    if (fdlist[i].fd != -1)
      FD_SET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds);
  pthread_mutex_unlock (&loop->lock);

  tv.tv_sec = 0;
  tv.tv_usec = 1000;

  do
  {
n = select (FD_SETSIZE, &rfds, &wfds, NULL, &tv);
}
while (n < 0 && errno == EINTR);

if (n < 0)
    return n;/* Error or timeout. */

pthread_mutex_lock (&loop->lock);
for (i = 0; i < MAX_FDS && n; i++)
{
    if (fdlist[i].fd != -1)
{
    if (FD_ISSET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds))
    {  
        assert (n);
        n--;
        any = 1;
        /* The I/O callback handler can register/remove callbacks, 
         * so we have to unlock the file descriptor list. */
        pthread_mutex_unlock (&loop->lock);
        (*fdlist[i].fnc) (fdlist[i].fnc_data, fdlist[i].fd);
        pthread_mutex_lock (&loop->lock);
    }
}
}
pthread_mutex_unlock (&loop->lock);
return any;
}

void
wait_for_op (struct event_loop *loop, struct op_result *result)
{
    int ret;

    do
    {
        ret = do_select (loop);
    }  
    while (ret >= 0 && !result->done);
}

The main function shows how to put it all together.

int
main (int argc, char *argv[])
{
    struct event_loop loop;
    struct op_result result;
gpgme_ctx_t ctx;
gpgme_error_t err;
gpgme_data_t sig, text;
int i;
pthread_mutexattr_t attr;
struct gpgme_io_cbs io_cbs =
{
  add_io_cb,
  &loop,
  remove_io_cb,
  event_io_cb,
  &result
};
init_gpgme();

/* Initialize the loop structure. */

/* The mutex must be recursive, since remove_io_cb (which acquires a
 lock) can be called while holding a lock acquired in do_select. */
pthread_mutexattr_init (&attr);
pthread_mutexattr_settype (&attr, PTHREAD_MUTEX_RECURSIVE);
pthread_mutex_init (&loop.lock, &attr);
pthread_mutexattr_destroy (&attr);

for (i = 0; i < MAX_FDS; i++)
  loop.fds[i].fd = -1;

/* Initialize the result structure. */
result.done = 0;

err = gpgme_data_new_from_file (&sig, "signature", 1);
if (!err)
  err = gpgme_data_new_from_file (&text, "text", 1);
if (!err)
  err = gpgme_new (&ctx);
if (!err)
{
  gpgme_set_io_cbs (ctx, &io_cbs);
  err = gpgme_op_verify_start (ctx, sig, text, NULL);
}
if (err)
{
  fprintf (stderr, "gpgme error: %s: %s\n",
            gpgme_strerror (err), gpgme_strsource (err));
  exit (1);
}
wait_for_op (&loop, &result);
if (!result.done)
{
    fprintf (stderr, "select error\n");
    exit (1);
}
if (!result.err)
{
    fprintf (stderr, "verification failed: %s: %s\n",
            gpgme_strsource (result.err), gpgme_strerror (result.err));
    exit (1);
}
/* Evaluate verify result. */
...
return 0;
}


7.9.2.4 I/O Callback Example GTK+
.................................

The I/O callback interface can be used to integrate GPGME with the GTK+ event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GTK+ specific setup.

#include <gtk/gtk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    guint input_handler_id
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{
    struct my_gpgme_io_cb *iocb = data;
    (*(iocb->fnc)) (iocb->data, source);
}

void
my_gpgme_remove_io_cb (void *data)
{
    struct my_gpgme_io_cb *iocb = data;
    gtk_input_remove (data->input_handler_id);
}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
                                      void *fnc_data, void **tag)
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->input_handler_id = gtk_input_add_full (fd, dir
                                      ? GDK_INPUT_READ
                                      : GDK_INPUT_WRITE,
                                      my_gpgme_io_callback,
                                      0, iocb, NULL);

    *tag = iocb;
    return 0;
}

7.9.2.5 I/O Callback Example GDK

The I/O callback interface can also be used to integrate GPGME with the
GDK event loop. The following code snippets shows how this can be done
using the appropriate register and remove I/O callback functions. In
this example, the private data of the register I/O callback function is
unused. The event notifications is missing because it does not require
any GDK specific setup.

It is very similar to the GTK+ example in the previous section.

#include <gdk/gdk.h>

struct my_gpgme_io_cb
{
    gpgme_io_cb_t fnc;
    void *fnc_data;
    gint tag;
};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{
    struct my_gpgme_io_cb *iocb = data;
    (*(iocb->fnc)) (iocb->data, source);
}

void
my_gpgme_remove_io_cb (void *data)
{
    struct my_gpgme_io_cb *iocb = data;
    gdk_input_remove (data->tag);
}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
                               void *fnc_data, void **tag)
{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->tag = gtk_input_add_full (fd, dir ? GDK_INPUT_READ : GDK_INPUT_WRITE,
                                     my_gpgme_io_callback, iocb, NULL);
    *tag = iocb;
    return 0;
}


7.9.2.6 I/O Callback Example Qt
..................................

The I/O callback interface can also be used to integrate GPGME with the Qt event loop. The following code snippets show how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any Qt specific setup.

#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB {
    IOCB( GpgmeIOCb f, void * d, QSocketNotifier * n ) :
        func( f ), data( d ), notifier( n ) {} };
GpgmeIOCb func;
void * data;
QSocketNotifier * notifier;

class MyApp : public QApplication {

    // ...

    static void registerGpgmeIOCallback( void * data, int fd, int dir,
                                          GpgmeIOCb func, void * func_data,
                                          void ** tag ) {
        QSocketNotifier * n =
            new QSocketNotifier( fd, dir ? QSocketNotifier::Read :
                                 QSocketNotifier::Write );
        connect( n, SIGNAL(activated(int)),
                qApp, SLOT(slotGpgmeIOCallback(int)) );
        qApp->mIOCBs.push_back( IOCB( func, func_data, n ) );
        *tag = (void*)n;
    }

    static void removeGpgmeIOCallback( void * tag ) {
        if ( !tag ) return;
        QSocketNotifier * n = static_cast<QSocketNotifier*>( tag );
        for ( QValueList<IOCB>::iterator it = qApp->mIOCBs.begin() ;
              it != qApp->mIOCBs.end() ; ++it )
            if ( it->notifier == n ) {
                delete it->notifier;
                qApp->mIOCBs.erase( it );
                return;
            }
    }

    public slots:
    void slotGpgmeIOCallback( int fd ) {
        for ( QValueList<IOCB>::const_iterator it = mIOCBs.begin() ;
              it != mIOCBs.end() ; ++it )
            if ( it->notifier && it->notifier->socket() == fd )
                (*(it->func)) ( it->func_data, fd );
    }

    // ...

    private:
    QValueList<IOCB> mIOCBs;
    // ...
};

File: gpgme.info, Node: Cancellation, Prev: Using External Event Loops, Up: Run Control
7.9.3 Cancellation

Sometimes you do not want to wait for an operation to finish. GPGME provides two different functions to achieve that. The function `gpgme_cancel` takes effect immediately. When it returns, the operation is effectively canceled. However, it has some limitations and cannot be used with synchronous operations. In contrast, the function `gpgme_cancel_async` can be used with any context and from any thread, but it is not guaranteed to take effect immediately. Instead, cancellation occurs at the next possible time (typically the next time I/O occurs in the target context).

-- Function: gpgme_ctx_t gpgme_cancel (gpgme_ctx_t CTX)
  SINCE: 0.4.5

The function `gpgme_cancel` attempts to cancel a pending operation in the context CTX. This only works if you use the global event loop or your own event loop.

If you use the global event loop, you must not call `gpgme_wait` during cancellation. After successful cancellation, you can call `gpgme_wait` (optionally waiting on CTX), and the context CTX will appear as if it had finished with the error code `GPG_ERR_CANCEL`.

If you use an external event loop, you must ensure that no I/O callbacks are invoked for this context (for example by halting the event loop). On successful cancellation, all registered I/O callbacks for this context will be unregistered, and a `GPGME_EVENT_DONE` event with the error code `GPG_ERR_CANCEL` will be signalled.

The function returns an error code if the cancellation failed (in this case the state of CTX is not modified).

-- Function: gpgme_ctx_t gpgme_cancel_async (gpgme_ctx_t CTX)
  SINCE: 1.1.7

The function `gpgme_cancel_async` attempts to cancel a pending operation in the context CTX. This can be called by any thread at any time after starting an operation on the context, but will not take effect immediately. The actual cancellation happens at the next time GPGME processes I/O in that context.

The function returns an error code if the cancellation failed (in this case the state of CTX is not modified).
Appendix A The GnuPG UI Server Protocol

This section specifies the protocol used between clients and a User Interface Server (UI server). This protocol helps to build a system where all cryptographic operations are done by a server and the server is responsible for all dialogs. Although GPGME has no direct support for this protocol it is believed that servers will utilize the GPGME library; thus having the specification included in this manual is an appropriate choice. This protocol should be referenced as The GnuPG UI Server Protocol.

A server needs to implement these commands:(1)

* Menu:
* UI Server Encrypt:: Encrypt a message.
* UI Server Sign:: Sign a message.
* UI Server Decrypt:: Decrypt a message.
* UI Server Verify:: Verify a message.
* UI Server Set Input Files:: Specifying the input files to operate on.
* UI Server Sign/Encrypt Files:: Encrypting and signing files.
* UI Server Verify/Decrypt Files:: Decrypting and verifying files.
* UI Server Import/Export Keys:: Managing certificates.
* UI Server Checksum Files:: Create and verify checksums for files.
* Miscellaneous UI Server Commands:: Commands not related to a specific operation.

-------- Footnotes --------
(1) In all examples we assume that the connection has already been established; see the Assuan manual for details.
may not check the recipient for validity right away; if it does not all recipients are expected to be checked at the time of the ENCRYPT command. All RECIPIENT commands are cumulative until a successful ENCRYPT command or until a RESET command. Linefeeds are obviously not allowed in STRING and should be folded into spaces (which are equivalent).

To tell the server the source and destination of the data, the next two commands are to be used:

-- Command: INPUT FD=N
Set the file descriptor for the message to be encrypted to N. The message send to the server is binary encoded.

GpgOL is a Windows only program, thus N is not a libc file descriptor but a regular system handle. Given that the Assuan connection works over a socket, it is not possible to use regular inheritance to make the file descriptor available to the server. Thus DuplicateHandle needs to be used to duplicate a handle to the server process. This is the reason that the server needs to implement the GETINFO pid command. Sending this command a second time replaces the file descriptor set by the last one.

-- Command: OUTPUT FD=N [--binary]
Set the file descriptor to be used for the output (i.e. the encrypted message) to N. If the option --binary is given the output shall be in binary format; if not given, the output for OpenPGP needs to be ASCII armored and for CMS Base-64 encoded. For details on the file descriptor, see the INPUT command.

The setting of the recipients, the data source and destination may happen in any order, even intermixed. If this has been done the actual encryption operation is called using:

-- Command: ENCRYPT --protocol=NAME

This command reads the plaintext from the file descriptor set by the INPUT command, encrypts it and writes the ciphertext to the file descriptor set by the OUTPUT command. The server may (and should) overlap reading and writing. The recipients used for the encryption are all the recipients set so far. If any recipient is not usable the server should take appropriate measures to notify the user about the problem and may cancel the operation by returning an error code. The used file descriptors are void after this command; the recipient list is only cleared if the server returns success.

Because GpgOL uses a streaming mode of operation the server is not
allowed to auto select the protocol and must obey to the mandatory
PROTOCOL parameter:

OpenPGP
   Use the OpenPGP protocol (RFC-2440).

CMS
   Use the CMS (PKCS#7) protocol (RFC-3852).

To support automagically selection of the protocol depending on the
selected keys, the server MAY implement the command:

-- Command: PREP_ENCRYPT [--protocol=NAME] [--expect-sign]

This commands considers all recipients set so far and decides
whether it is able to take input and start the actual encryption.
This is kind of a dry-run ENCRYPT without requiring or using the
input and output file descriptors. The server shall cache the
result of any user selection to avoid asking this again when the
actual ENCRYPT command is send. The --protocol option is
optional; if it is not given, the server should allow the user to
select the protocol to be used based on the recipients given or by
any other means.

If --expect-sign is given the server should expect that the
message will also be signed and use this hint to present a unified
recipient and signer selection dialog if possible and desired. A
selected signer should then be cached for the expected SIGN command
(which is expected in the same session but possible on another
connection).

If this command is given again before a successful ENCRYPT
command, the second one takes effect.

Before sending the OK response the server shall tell the client the
protocol to be used (either the one given by the argument or the
one selected by the user) by means of a status line:

-- Status line: PROTOCOL NAME
   Advise the client to use the protocol NAME for the ENCRYPT
   command. The valid protocol names are listed under the description
   of the ENCRYPT command. The server shall emit exactly one
   PROTOCOL status line.

Here is an example of a complete encryption sequence; client lines are
indicated by a C:, server responses by C:.

   C: RESET
   S: OK
A.2 UI Server: Sign a Message

The server needs to implement opaque signing as well as detached signing. Due to the nature of OpenPGP messages it is always required to send the entire message to the server; sending just the hash is not possible. The following two commands are required to set the input and output file descriptors:

-- Command: INPUT FD=N
Set the file descriptor for the message to be signed to N. The message send to the server is binary encoded. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N [--binary]
Set the file descriptor to be used for the output. The output is either the complete signed message or in case of a detached signature just that detached signature. If the option --binary is given the output shall be in binary format; if not given, the output for OpenPGP needs to be ASCII armored and for CMS Base-64 encoded. For details on the file descriptor, see the INPUT command.

To allow the server the selection of a non-default signing key the client may optionally use the SENDER command, see *note command SENDER::.

The signing operation is then initiated by:
-- Command: SIGN --protocol=NAME [--detached]
Sign the data set with the INPUT command and write it to the sink set by OUTPUT. NAME is the signing protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. With option --detached given, a detached signature is created; this is actually the usual way the command is used.

The client expects the server to send at least this status information before the final OK response:

-- Status line: MICALG STRING
The STRING represents the hash algorithm used to create the signature. It is used with RFC-1847 style signature messages and defined by PGP/MIME (RFC-3156) and S/MIME (RFC-3851). The GPGME library has a supporting function gpgme_hash_algo_name to return the algorithm name as a string. This string needs to be lowercased and for OpenPGP prefixed with "pgp-".


A.3 UI Server: Decrypt a Message
================================
Decryption may include the verification of OpenPGP messages. This is due to the often used combined signing/encryption modus of OpenPGP. The client may pass an option to the server to inhibit the signature verification. The following two commands are required to set the input and output file descriptors:

-- Command: INPUT FD=N
Set the file descriptor for the message to be decrypted to N. The message send to the server is either binary encoded or in the case of OpenPGP ASCII armored. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N
Set the file descriptor to be used for the output. The output is binary encoded. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

The decryption is started with the command:

-- Command: DECRYPT --protocol=NAME [--no-verify] [--export-session-key]
NAME is the encryption protocol used for the message. For a description of the allowed protocols see the ENCRYPT command.
This argument is mandatory. If the option --no-verify is given, the server should not try to verify a signature, in case the input data is an OpenPGP combined message. If the option --export-session-key is given and the underlying engine knows how to export the session key, it will appear on a status line.

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* MIT License

For files:
- cJSON.c, cJSON.h

#+begin_quote
Copyright (c) 2009 Dave Gamble

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#+end_quote
Just GNU it!
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

* m4/pth.m4: Removed.
* configure.ac: Remove check for pth and automake conditional HAVE_PTH.

2011-06-16 Marcus Brinkmann <marcus@g10code.com>

Release 1.3.1

* configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am (SUBDIRS): Remove complus.

  * configure.ac (AC_CONFIG_FILES): Remove complus/Makefile.
  (BUILD_COMPLUS): Remove AM_CONDITIONAL.
  * complus/: Remove very old and stale component.

  * acinclude.m4 (GNUPG_FIX_HDR_VERSION): Remove.

2011-04-14 Werner Koch <wk@g10code.com>

* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

  * autogen.sh (--build-w32): Support option --build-w64.
  * configure.ac (HAVE_W64_SYSTEM): Define.
  (INSERT_TYPEDEF FOR_GPGME_H): New.
  (GPGME_CONFIG_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* configure.ac (NEED_LIBASSUAN VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

  * configure.ac (AC_CHECK_HEADERS): Check for sys/types.h and sys/stat.h.
2010-11-02 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys.time.h.

2010-08-19 Werner Koch <wk@g10code.com>

* configure.ac (AH_BOTTOM): Define GPG_ERR_ENABLE_ERRNO_MACROS.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Update the thing.

* configure.ac: Check for locale.h.

2010-05-06 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Detect Windows CE.
  (HAVE_W32CE_SYSTEM): New symbol and automake conditional.
  * ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

* configure.ac: Require libgpg-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

* configure.ac (emacs_local_vars_begin)
  (emacs_local_vars_read_only, emacs_local_vars_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Do not use echo -n. Test for __thread.
2009-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

Update to libtool 2.2.6a.
* configure.ac: Invoke AC_CONFIG_MACRO_DIR.
(AC_LIBTOOL_WIN32_DLL, AC_LIBTOOL_RC): Replace by ...
(LT_PREREQ, LT_INIT, LT_LANG): ... these.
* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4:
Updated to libtool 2.2.6a.
* m4/ltoptions.m4, m4/lt sugar.m4, m4/ltversion.m4,
m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Activate UIServer if FD passing is enabled and
Assuan is available.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for argp.h and error_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION_DEFAULT): Bump to 1.4.0 as 1.3.0
was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace internal libassuan by external libassuan.
* Makefile.am (assuan): Remove variable.
(SUBDIRS): Remove $[assuan].
* assuan/: Removed.
2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add AC_TYPE_UINTPTR_T.

* assuan/assuan.h [_ASSUAN_IN_GPGME_BUILD_ASSUAN]: Declare _gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

Released GPGME 1.2.0.

* configure.ac (my_version): Set to 1.2.0.
  (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump.
  (LIBGPGME_LT_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add infrastructure for compile time check of _FILE_OFFSET_BITS.

2009-04-19 Moritz <moritz@gnu.org>


2009-03-06 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.8.

* configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

* configure.ac: Replace gpgme paths with src.
  * gpgme: Move to ...
  * src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add gpgme.h.
(GNUPG_FIX_HDR_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

Release GPGME 1.1.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>

* configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* configure.ac (_XOPEN_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

* config.guess, config.sub: Update to 2007-11-19. Also update missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

* configure.ac (AC_INIT): Fix quoting.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump required version of automake up to 1.10.
  * autogen.sh: Fix aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.6.

* configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* assuan-pipe-connect.c (pipe_connect_gpgme): Do not close process handle here. Use this function also on Unix systems.

* assuan-pipe-connect.c (pipe_connect_gpgme): Fix last change.

* assuan-pipe-connect.c (pipe_connect_gpgme): New function, use it if _ASSUAN_IN_GPGME_BUILD_ASSUAN.

2007-09-17 Werner Koch <wk@g10code.com>
* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for C++, Qt and support --enable-w32-qt.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (--enable-w32-glib): Use --enableval, not --withval.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-socket.c (_assuan_close): Always use close().
* assuan/assuan.h (_gpgme_io_close): New prototype.
  (close): New macro, define as _gpgme_io_close.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-io.c (_assuan_simple_read, _assuan_simple_write): 
  Always use read/write (which means _gpgme_io_read and 
  _gpgme_io_write).

2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (PGSM_DEFAULT) [%mingw32%]: Initialize it.
  (HAVE_ASSUAN_H): Set to 1 if we have it.
  (funopen): Use AC_REPLACE_FUNCS.
  (USE_DESCRIPTOR_PASSING): Define to 1 if we have it. Do not
  define it at all if we don't.
  (NETLIBS) [have_w32_system]: Add -lws2_32.
  (DIRSEP_C, DIRSEP_S, EXPSEP_C, EXPSEP_S, PATHSEP_S)
  [HAVE_DOSISH_SYSTEM]: Remove definitions.

* assuan/assuan.h (_assuan_funopen): Define to _gpgme_funopen.
* assuan/funopen.c: Move to ../gpgme/funopen.c.
* assuan/Makefile.am (libassuan_la_SOURCES): Remove funopen.c.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

* assuan/Makefile.am (INCLUDES): Include $(top_scredir)/gpgme.
* assuan/assuan.h: Include <ath.h> instead of trying to duplicate the definitions.

* assuan/: Update files to 2007-07-04 version of assuan.

* autogen.sh: Use = not == in test.

2007-03-05 Werner Koch <wk@g10code.com>

Released 1.1.4.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

* configure.ac: Changed gpg and gpgsm version checks to work with arbitrary names of the gpg binary. New option --disable-gpg-test and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

* configure.ac (NEED_GPG_VERSION, NEED_GPGSM_VERSION): Must define after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

* configure.ac: Require gpg-error 1.4 due to the use of gpg_error_from_syserror.

(HAVE_ASSUAN_H): New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add options --with-gpg-version and --with-gpgsm-version to allow overriding the minimum version requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Fix two typos in last change.
2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Use descriptor passing only if --enable-fd-passing is provided.

* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Turn stpcpy into a replacement function. Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* lang, lang/cl: New subdirectories.
  * lang/Makefile.am, lang/README: New files.
  * configure.ac (AC_CONFIG_FILES): Add lang/Makefile, lang/cl/Makefile and lang/cl/gpgme.asd.
  * Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.1.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for release.
  (LIBGPGME_LT_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

* configure.ac: Test for inline feature.
  (AH_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

* configure.ac: Append SVN revision to the version.
2005-11-18 Werner Koch <wk@g10code.com>

* configure.ac (BUILD_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for --enable-w32-glib (disabled by default). Invoke AM_PATH_GLIB_2_0.

2005-11-16 Werner Koch <wk@g10code.com>

* configure.ac (CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

* configure.ac: Create BUILD_FILEVERSION from SVN Revision.

* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove files.

* configure.ac: Instead checking for windres and dlltool, invoke AC_LIBTOOL_WIN32_DLL and AC_LIBTOOL_RC.

* src/Makefile.am [HAVE_W32_SYSTEM]: Use libtool, which simplifies the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

* configure.ac (LIBPGME_LT_CURRENT, LIBPGME_LT_AGE): Bump for release.
(LIBPGME_LT_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_PTH): Don't add $PTH_CFLAGS to $CFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

* configure.ac (SEPCONSTANTS): New to define DIRSEP_C et al.

2005-08-19 Werner Koch <wk@g10code.com>
* configure.ac [W32]: Create values for versioninfo.rc and list substutute versioninfo.rc.
* configure.ac: Define ENABLE_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AH_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): Assume no when cross-compiling.

* Makefile.am (EXTRA_DIST): Include autogen.sh

* autogen.sh: Added the usual code to build for W32 (--build-w32).

* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.
  (HAVE_DRIVE_LETTERS): Removed.
  (HAVE_W32_SYSTEM): Added.
  (AC_GNU_SOURCE): New to replace the identical AH_VERBATIM.
  (AH_BOTTOM): Added.

2004-12-28 Werner Koch <wk@g10code.com>

Released 1.0.2.

* Makefile.am (AUTOMAKE_OPTIONS): Build bzip 2 version.
  (ACLOCAL_AMFLAGS): Add -I m4.
* configure.ac: Require automake 1.9.3 and autoconf 2.59.
* acinclude.m4: Changed quoting for automake 1.9.
* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace ttyname_r if it doesn't exist (and warn in that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* README: Refer to COPYING.LESSER and "each file" instead of COPYING.
* COPYING.LESSER: New file.
* gpgme.spec.in (%doc): Add COPYING.LESSER.
* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL.
2.1 or later.
* TODO: Add copyright notice.
* README.CVS: Likewise.

* configure.ac (GPGSM_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 2.
(AC_INIT): Set version to 1.0.1.

* configure.ac: Set HAVE_GPGSM to true only if $GPGSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.
(AC_INIT): Set version to 1.0.0.

* Makefile.am (EXTRA_DIST): Remove README-alpha.
* README-alpha: Remove file.

2004-09-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable AC_CONFIG_MACRO_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Improve diagnostics with version check.

* configure.ac: Print diagnostics about found thread libraries at the end. Check for the versions of GPG and GPGSM and print the found versions at the end.
(HAVE_GPGSM): Do not require GPGSM to exist and be readable.
(AC_CONFIG_MACRO_DIR): Invoke with argument m4.

* acinclude.m4: Add copyright notice.
 jm_GLIBC21, AM_PATH_GPG_ERROR, _AC_PTH_ERROR, _AC_PTH_VERBOSE, AC_CHECK_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for <sys/uio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>
Released 0.9.0.

* configure.ac (AC_INIT): Set version number to 0.9.0.
(LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by one.
(LIBGPGME_LT_REVISION): Reset to zero.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGME_CONFIG_API_VERSION): New variable, substitute it.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump it up.

2004-04-02 Thomas Schwinge <schwinge@nic-nac-project.de>

* autogen.sh: Added ACLOCAL_FLAGS.

2004-04-06 Werner Koch <wk@gnupg.org>

Released 0.4.6.

* config.guess, config.sub, ltmain.sh: Updated to those from libtools 1.5.4.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.5.

* configure.ac (NEED_GPGSM_VERSION): Bump up to 1.9.6.

* Makefile.am (EXTRA_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch <wk@gnupg.org>

* configure.ac: Make the check for funopen fail with just a warning.

2004-02-11 Werner Koch <wk@gnupg.org>

* autogen.sh (check_version): Removed bashism and simplified.

2004-02-10 Werner Koch <wk@gnupg.org>
* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte <mo@g10code.com>

* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add invocation of AC_SYS_LARGEFILE, AC_TYPE_OFF_T and AC_FUNC_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

* configure.ac: Bumped LT_Revision; now at C12/A1/R1. (NEED_GPGSM_VERSION): Set to 1.9.3. (min_automake_version): Added.
* README.CVS: New.
* Makefile.am (EXTRA_DIST): Added README.CVS.
* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>

* acinclude.m4: Add AM_PATH_GPG_ERROR.
* configure.ac: Check for timegm. Made warning messages more prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by 1. (LIBGPGME_LT_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Require libgpg-error 0.5.

* acinclude.m4: Remove libtool cruft, add jm_GLIBC21.
* configure.ac: Add check for getenv_r, and call jm_GLIBC21. Define HAVE_THREAD_SAFE_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Remove GPGME_CONFIG_LIBS and GPGME_CONFIG_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>
* configure.ac: Move invocation of AC_CANONICAL_HOST up to suppress warning by autoconf.

2003-08-30  Robert Schiele <rschiele@uni-mannheim.de>

* gpgme.spec.in: %{_infodir}/dir is not packaged, remove to prevent checking failure.

2003-08-18  Marcus Brinkmann <marcus@g10code.de>

* configure.ac: If building Assuan, check for funopen and fopencookie, and make isascii, putc_unlocked and memrchr replacement functions.
  (AM_PATH_GPG_ERROR): Require 0.3.

2003-07-31  Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.3.

2003-07-30  Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.

Released 0.4.2.

2003-07-08  Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Complain if libgpg-error is not found.

2003-06-22  Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.2.

2003-06-06  Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Bump up to 11.

* configure.ac: Use AM_PATH_GPG_ERROR.

* configure.ac: Check for libgpg-error. Define GPG_ERR_SOURCE_DEFAULT.

2003-05-26  Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump up to 1.2.2.

2003-05-18  Marcus Brinkmann <marcus@g10code.de>
In all files, replace the Gpgme* type names with the new gpgme_* type names.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile, bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.
* configure.ac: Remove automake conditional BUILD_BONOBO (AC_CONFIG_FILES): Remove bonobo/Makefile.
* Makefile.am (bonobo): Remove variable.
(SubDIRS): Remove ${bonobo}.

* configure.ac: Remove all uses of GNUPG_CHECK_TYPEDEF, for byte, ushort, ulong, u16 and u32.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: New conditional HAVE_LD_VERSION_SCRIPT. Call AC_CANONICAL_HOST, use host instead target.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (automake_vers): Require 1.7 (really 1.7.1) for the conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Increase by one.
(LIBGPGME_LT_AGE, LIBGPGME_LT_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann <marcus@g10code.de>

* NEWS: Add note about moving "gpgmeplug" to the "cryptplug" package.
* README: Remove instructions related to "gpgmeplug".
* configure.ac: Remove enable option "gpgmeplug" and automake
conditional BUILD_GPGMEPLUG, as well as the status info about it.
(GPGMEPLUG): Remove variable.
* Makefile.am (gpgmeplug): Remove variable.
(SUBDIRS): Remove ${gpgmeplug}.
* cryptplug.h, gpgme-openpgp.c, gpgmeplug.dox, gpgme-smime.c,
  Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version up to 0.4.0.
  (NEED_GPG_VERSION): Bump up to 1.2.0.
  (NEED_GPGSM_VERSION): Bump up to 0.9.0.
* README: Update version numbers.
* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>

Released 0.3.11.

* configure.ac: Bump up LIBGPGME_LT_REVISION.

* configure.ac (AC_CHECK_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (autoconf_vers): Bump up to 2.53 to get the @&t@ quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Create and substitute LTLIBOBJS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

* NEWS: Update for 0.3.9 release.
* configure.ac: Bump up LIBGPGME_LT_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>
* gpgme.spec.in: Changed user name in Wojciech Polak's email address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): New.
* configure.ac: Use it.

2002-08-23 Werner Koch <wk@gnupg.org>

* configure.ac (GPGME_CONFIG_CFLAGS): Renamed from GPGME_CFLAGS and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump version number to 0.3.10.
* NEWS: Add template for development version.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.

* NEWS: Update for 0.3.9 release.
* Makefile.am (EXTRA_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog, jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h, jnlib/logging.c, jnlib/logging.h, jnlib/Makefile.am, jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c, jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h, jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Remove jnlib.
* configure.ac: Don't check for unsigned short or unsigned long.
Don't check for memicmp, strlwr, strtoul, memmove, strcmp.
Make stpcpy a replaced function.
Don't define HAVE_JNLIB_LOGGING.
Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

* configure.ac: Bumped version number to 0.3.9; add a comment on
when to change it.

* Makefile.am (dist-hook): New.

* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>

Released 0.3.8.

* configure.ac: Bumped LT version to 9/3/0.
(NEED_GPGSM_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

* configure.ac (AC_INIT): Set version to 0.3.7.
(LIBGPGME_LT_REVISION): Add one.

* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* acinclude.m4: Fix Pth check so that it doesn't error out if pth is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add checks for Pth and pthreads.
* acinclude.m4: Add slightly hacked check for pth (seems to be an autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

* configure.ac (NEED_GPGSM_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* acconfig.h: File removed.
* configure.ac (NEED_GPG_VERSION): Add description.
(NEED_GPGSM_VERSION): Likewise.
(HAVE_DOSISH_SYSTEM): Likewise.
(HAVE_DRIVE_LETTERS): Likewise.
(GPG_PATH): Likewise.
(GPGSM_PATH): Likewise.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Likewise.

2002-04-01  Werner Koch  <wk@gnupg.org>

Released 0.3.5.

2002-03-17  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_DOSISH_SYSTEM.

2002-03-04  Werner Koch  <wk@gnupg.org>

* configure.ac: Bumped version to 0.3.4-cvs to continue development.

Released 0.3.4.

* configure.ac: Bumped LT version numbers to (7,1,0), requires
  gpgsm 0.3.1.

2002-03-03  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (AC_INIT): Change version number to snapshot CVS
  version.

2002-02-13  Werner Koch  <wk@gnupg.org>

* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12  Marcus Brinkmann  <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.3.3.
* jnlib/Makefile.am: Rever to older version that includes xmalloc
  but not dotlock and some other files. Reported by Stphane
  Corthsy.

2002-02-10  Marcus Brinkmann  <marcus@g10code.de>

* Released 0.3.2.

* configure.ac (AC_INIT): Bump version to 0.3.2.
* jnlib/libjnlibconfig.h: Revert to older version that doesn't
  expect libgcrypt. Reported by Jose Carlos Garcia Sogo
  <jsogo@debian.org>.

2002-02-09  Marcus Brinkmann  <marcus@g10code.de>
* Released 0.3.1.

* configure.ac (LIBGPGME_LT_CURRENT): Bump it up to 6!
(NEED_GPGSM_VERSION): Bump it up to 0.3.0! 
(AC_INIT): Bump version to 0.3.1

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_INLIB_LOGGING): Define always for assuan.

2001-12-19 Werner Koch <wk@gnupg.org>

* configure.ac (VERSION,PACKAGE): Defined and subst. Used for AM_INIT_AUTOMAKE and moved all version number more to the top.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (libtool_vers): Bump to 1.4.

* configure.ac (LIBGPGME_LT_CURRENT): Increment.
(LIBGPGME_LT_AGE): Reset.
Improve comment.
Fix wrong comment character.

2001-12-18 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Fixed for new automake.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPG): Substitute this variable.
(GPGSM): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Add tests/gpg/Makefile and tests/gpgsm/Makefile.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if [BUILD_GPGMEPLUG].
* configure.ac (AC_CONFIG_FILES): Add gpgmeplug/Makefile.
Support --enable-gpgmeplug.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>
* autogen.sh: Tighten version dependencies.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Support building the assuan library (currently if GPGSM_PATH is set).
* configure.ac: Support building the assuan library.
* assuan: New directory, populated with the Assuan library (copied from the newpg repository).

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPGSM_VERSION): New variable. Treat it similarly to NEED_GPG_VERSION.
* acconfig.h: Likewise.

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* configure.in: Renamed to ...
* configure.ac: ... this. Update to autoconf 2.52. Lots of small changes in the transition. Support --with-gpg=PATH and --with-gpgsm=PATH options. Check if test suites can be run.
* acconfig.h: Add GPGSM_PATH.
* Makefile.am: New variable `tests', set to `tests' if RUN_GPG_TESTS.
(SUBDIRS): Replace string `tests' with variable `tests'.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Invoke automake with `-a' (add missing files).
Do not invoke configure.

2001-09-17 Werner Koch <wk@gnupg.org>

Released 0.2.3.

* configure.in (NEED_GPG_VERSION): Set to 1.0.6. Incremented LT current and age.

* Makefile.am (SUBDIRS): Add doc

2001-06-12 Werner Koch <wk@gnupg.org>

Released 0.2.2.

2001-04-05 Werner Koch <wk@gnupg.org>

* configure.in (NEED_GPG_VERSION): Set to 1.0.4g
2001-04-02  Werner Koch  <wk@gnupg.org>

Released 0.2.1.

Changed the copyright notices all over the place.

2001-02-28  Werner Koch  <wk@gnupg.org>

Released 0.2.0.

2001-01-18  Werner Koch  <wk@gnupg.org>

* autogen.sh: Added option --build-w32.


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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The
A.4 UI Server: Verify a Message

The server needs to support the verification of opaque signatures as well as detached signatures. The kind of input sources controls what kind message is to be verified.

-- Command: MESSAGE FD=N

This command is used with detached signatures to set the file descriptor for the signed data to N. The data is binary encoded (used verbatim). For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: INPUT FD=N

Set the file descriptor for the opaque message or the signature part of a detached signature to N. The message send to the server is either binary encoded or in the case of OpenPGP ASCII armored. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

-- Command: OUTPUT FD=N

Set the file descriptor to be used for the output. The output is binary encoded and only used for opaque signatures. For details on the file descriptor, see the description of INPUT in the ENCRYPT section.

The verification is then started using:

-- Command: VERIFY --protocol=NAME [--silent]
NAME is the signing protocol used for the message. For a description of the allowed protocols see the ENCRYPT command. This argument is mandatory. Depending on the combination of MESSAGE INPUT and OUTPUT commands, the server needs to select the appropriate verification mode:

MESSAGE and INPUT
This indicates a detached signature. Output data is not applicable.

INPUT
This indicates an opaque signature. As no output command has been given, the server is only required to check the signature.

INPUT and OUTPUT
This indicates an opaque signature. The server shall write the signed data to the file descriptor set by the output command. This data shall even be written if the signatures cant be verified.

With --silent the server shall not display any dialog; this is for example used by the client to get the content of opaque signed messages. The client expects the server to send at least this status information before the final OK response:

-- Status line: SIGSTATUS FLAG DISPLAYSTRING
Returns the status for the signature and a short string explaining the status. Valid values for FLAG are:

none
The message has a signature but it could not not be verified due to a missing key.
green
The signature is fully valid.
yellow
The signature is valid but additional information was shown regarding the validity of the key.
red
The signature is not valid.

DISPLAYSTRING is a percent-and-plus-encoded string with a short human readable description of the status. For example

    S SIGSTATUS green Good+signature+from+Keith+Moon+<keith@example.net>

Note that this string needs to fit into an Assuan line and should be short enough to be displayed as short one-liner on the clients window. As usual the encoding of this string is UTF-8 and it should be send in its translated form.
The server shall send one status line for every signature found on
the message.

A.5 UI Server: Specifying the input files to operate on.
=================================================================================

All file related UI server commands operate on a number of input files
or directories, specified by one or more FILE commands:

-- Command: FILE [--clear] NAME
Add the file or directory NAME to the list of pathnames to be
processed by the server. The parameter NAME must be an absolute
path name (including the drive letter) and is percent espaced (in
particular, the characters %, = and white space characters are
always escaped). If the option --clear is given, the list of
files is cleared before adding NAME.

Historical note: The original spec did not define --clear but the
keyword --continued after the file name to indicate that more
files are to be expected. However, this has never been used and
thus removed from the specs.

A.6 UI Server: Encrypting and signing files.
================================================================================

First, the input files need to be specified by one or more FILE
commands. Afterwards, the actual operation is requested:

-- Command: ENCRYPT_FILES --nohup
-- Command: SIGN_FILES --nohup
-- Command: ENCRYPT_SIGN_FILES --nohup
Request that the files specified by FILE are encrypted and/or
signed. The command selects the default action. The UI server may
allow the user to change this default afterwards interactively, and
even abort the operation or complete it only on some of the
selected files and directories.

What it means to encrypt or sign a file or directory is specific to
the preferences of the user, the functionality the UI server
provides, and the selected protocol. Typically, for each input file a new file is created under the original filename plus a protocol specific extension (like .gpg or .sig), which contain the encrypted/signed file or a detached signature. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The ENCRYPT_SIGN_FILES command requests a combined sign and encrypt operation. It may not be available for all protocols (for example, it is available for OpenPGP but not for CMS).

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.


A.7 UI Server: Decrypting and verifying files.
===============================================================================

First, the input files need to be specified by one or more FILE commands. Afterwards, the actual operation is requested:

-- Command: DECRYPT_FILES --nohup
-- Command: VERIFY_FILES --nohup
-- Command: DECRYPT_VERIFY_FILES --nohup

Request that the files specified by FILE are decrypted and/or verified. The command selects the default action. The UI server may allow the user to change this default afterwards interactively, and even abort the operation or complete it only on some of the selected files and directories.

What it means to decrypt or verify a file or directory is specific to the preferences of the user, the functionality the UI server provides, and the selected protocol. Typically, for decryption, a new file is created for each input file under the original filename minus a protocol specific extension (like .gpg) which contains the original plaintext. For verification a status is displayed for each signed input file, indicating if it is signed, and if yes, if the signature is valid. For files that are signed and encrypted, the VERIFY command transiently decrypts the file to verify the enclosed signature. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified
what should happen if --nohup is not present. Because --nohup
is present, the server always returns OK promptly, and completes
the operation asynchronously.

A.8 UI Server: Managing certificates.
=====================================  
First, the input files need to be specified by one or more FILE
commands. Afterwards, the actual operation is requested:

-- Command: IMPORT_FILES --nohup
Request that the certificates contained in the files specified by
FILE are imported into the local certificate databases.

For directories, the server may offer multiple options to the user
(for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified
what should happen if --nohup is not present. Because --nohup
is present, the server always returns OK promptly, and completes
the operation asynchronously.

FIXME: It may be nice to support an EXPORT command as well, which
is enabled by the context menu of the background of a directory.

A.9 UI Server: Create and verify checksums for files.
==============================================
First, the input files need to be specified by one or more FILE
commands. Afterwards, the actual operation is requested:

-- Command: CHECKSUM_CREATE_FILES --nohup
Request that checksums are created for the files specified by
FILE. The choice of checksum algorithm and the destination
storage and format for the created checksums depend on the
preferences of the user and the functionality provided by the UI
server. For directories, the server may offer multiple options to
the user (for example ignore or process recursively).

The option --nohup is mandatory. It is currently unspecified
what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.

-- Command: CHECKSUM_VERIFY_FILES --nohup
Request that checksums are created for the files specified by FILE and verified against previously created and stored checksums. The choice of checksum algorithm and the source storage and format for previously created checksums depend on the preferences of the user and the functionality provided by the UI server. For directories, the server may offer multiple options to the user (for example ignore or process recursively).

If the source storage of previously created checksums is available to the user through the Windows shell, this command may also accept such checksum files as FILE arguments. In this case, the UI server should instead verify the checksum of the referenced files as if they were given as INPUT files.

The option --nohup is mandatory. It is currently unspecified what should happen if --nohup is not present. Because --nohup is present, the server always returns OK promptly, and completes the operation asynchronously.


A.10 Miscellaneous UI Server Commands
=====================================
window. On Windows systems this is a windows handle (HWND) and on X11 systems it is the X Window ID. The number needs to be given as a hexadecimal value so that it is easier to convey pointer values (e.g. HWND).

A client may want to fire up the certificate manager of the server. To do this it uses the Assuan command:

```
-- Command: START_KEYMANAGER
The server shall pop up the main window of the key manager (aka certificate manager). The client expects that the key manager is brought into the foreground and that this command immediately returns (does not wait until the key manager has been fully brought up).
```

A client may want to fire up the configuration dialog of the server. To do this it uses the Assuan command:

```
-- Command: START_CONF DIALOG
The server shall pop up its configuration dialog. The client expects that this dialog is brought into the foreground and that this command immediately returns (i.e. it does not wait until the dialog has been fully brought up).
```

When doing an operation on a mail, it is useful to let the server know the address of the sender:

```
-- Command: SENDER [--info] [--protocol=NAME] EMAIL
EMAIL is the plain ASCII encoded address ("addr-spec" as per RFC-2822) enclosed in angle brackets. The address set with this command is valid until a successful completion of the operation or until a RESET command. A second command overrides the effect of the first one; if EMAIL is not given and --info is not used, the server shall use the default signing key.

If option --info is not given, the server shall also suggest a protocol to use for signing. The client may use this suggested protocol on its own discretion. The same status line as with PREP_ENCRYPT is used for this.

The option --protocol may be used to give the server a hint on which signing protocol should be preferred.

To allow the UI-server to visually identify a running operation or to associate operations the server MAY support the command:

```
-- Command: SESSION NUMBER [STRING]
The NUMBER is an arbitrary value, a server may use to associate
simultaneous running sessions. It is a 32 bit unsigned integer with 0 as a special value indicating that no session association shall be done.

If STRING is given, the server may use this as the title of a window or, in the case of an email operation, to extract the senders address. The string may contain spaces; thus no plus-escaping is used.

This command may be used at any time and overrides the effect of the last command. A RESET undoes the effect of this command.

Appendix B How to solve problems
********************************

Everyone knows that software often does not do what it should do and thus there is a need to track down problems. This is in particular true for applications using a complex library like GPGME and of course also for the library itself. Here we give a few hints on how to solve such problems.

First of all you should make sure that the keys you want to use are installed in the GnuPG engine and are usable. Thus the first test is to run the desired operation using gpg or gpgsm on the command line. If you cant figure out why things dont work, you may use GPGMEs built in trace feature. This feature is either enabled using the environment variable GPGME_DEBUG or, if this is not possible, by calling the function gpgme_set_global_flag. The value is the trace level and an optional file name. If no file name is given the trace output is printed to stderr.

For example

GPGME_DEBUG=9:/home/user/mygpgme.log
(Note that under Windows you use a semicolon in place of the colon to separate the fields.)

A trace level of 9 is pretty verbose and thus you may want to start off with a lower level. The exact definition of the trace levels and the output format may change with any release; you need to check the source code for details. In any case the trace log should be helpful to understand what is going on. Warning: The trace log may reveal sensitive details like passphrases or other data you use in your application. If you are asked to send a log file, make sure that you run your tests only with play data.
Appendix C Deprecated Functions

For backward compatibility, GPGME has a number of functions, data types, and constants which are deprecated and should not be used anymore. We document here those which are really old to help understanding old code and to allow migration to their modern counterparts.

*Warning:* These interfaces will be removed in a future version of GPGME.

-- Function: void gpgme_key_release (gpgme_key_t KEY)
   The function gpgme_key_release is equivalent to gpgme_key_unref.

-- Function: void gpgme_trust_item_release (gpgme_trust_item_t ITEM)
   The function gpgme_trust_item_release is an alias for gpgme_trust_item_unref.

-- Function: gpgme_error_t gpgme_op_import_ext (gpgme_ctx_t CTX,
                                             gpgme_data_t KEYDATA, int *NR)
   SINCE: 0.3.9
   The function gpgme_op_import_ext is equivalent to:

   gpgme_error_t err = gpgme_op_import (ctx, keydata);
   if (!err)
     { 
       gpgme_import_result_t result = gpgme_op_import_result (ctx);
       *nr = result->considered;
     }

-- Data type: gpgme_error_t (*gpgme_edit_cb_t) (void *HANDLE,
                                 gpgme_status_code_t STATUS, const char *ARGS, int FD)
   The gpgme_edit_cb_t type is the type of functions which GPGME calls if a key edit operation is on-going. The status code STATUS and the argument line ARGS are passed through by GPGME from the crypto engine. The file descriptor FD is -1 for normal status messages. If STATUS indicates a command rather than a status message, the response to the command should be written to FD. The HANDLE is provided by the user at start of operation.

   The function should return GPG_ERR_FALSE if it did not handle the status code, 0 for success, or any other error value.
-- Function: gpgme_error_t gpgme_op_edit (gpgme_ctx_t CTX,
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,
gpgme_data_t OUT)
SINCE: 0.3.9

Note: This function is deprecated, please use gpgme_op_interact instead.

The function gpgme_op_edit processes the key KEY interactively, using the edit callback function FNC with the handle HANDLE. The callback is invoked for every status and command request from the crypto engine. The output of the crypto engine is written to the data object OUT.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by GPGME.

The function returns the error code GPG_ERR_NO_ERROR if the edit operation completes successfully, GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.

-- Function: gpgme_error_t gpgme_op_edit_start (gpgme_ctx_t CTX,
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,
gpgme_data_t OUT)
SINCE: 0.3.9

Note: This function is deprecated, please use gpgme_op_interact_start instead.

The function gpgme_op_edit_start initiates a gpgme_op_edit operation. It can be completed by calling gpgme_wait on the context. *Note Waiting For Completion:::

The function returns the error code GPG_ERR_NO_ERROR if the operation was started successfully, and GPG_ERR_INV_VALUE if CTX or KEY is not a valid pointer.

-- Function: gpgme_error_t gpgme_op_card_edit (gpgme_ctx_t CTX,
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,
gpgme_data_t OUT)
Note: This function is deprecated, please use gpgme_op_interact with the flag GPGME_INTERACT_CARD instead.

The function gpgme_op_card_edit is analogous to gpgme_op_edit, but should be used to process the smart card corresponding to the
key KEY.

-- Function: gpgme_error_t gpgme_op_card_edit_start (gpgme_ctx_t CTX,
gpgme_key_t KEY, gpgme_edit_cb_t FNC, void *HANDLE,
gpgme_data_t OUT)
Note: This function is deprecated, please use
gpgme_op_interact_start with the flag GPGME_INTERACT_CARD
instead.

The function gpgme_op_card_edit_start initiates a
gpgme_op_card_edit operation. It can be completed by calling
gpgme_wait on the context. *Note Waiting For Completion:*.

The function returns the error code GPG_ERR_NO_ERROR if the
operation was started successfully, and GPG_ERR_INV_VALUE if CTX
or KEY is not a valid pointer.

-- Function: gpgme_error_t gpgme_data_new_with_read_cb
gpgme_data_t *DH, int (*READFUNC) (void *HOOK, char *BUFFER,
size_t COUNT, size_t *NREAD), void *HOOK_VALUE
The function gpgme_data_new_with_read_cb creates a new
gpgme_data_t object and uses the callback function READFUNC to
retrieve the data on demand. As the callback function can supply
the data in any way it wants, this is the most flexible data type
GPGME provides. However, it can not be used to write data.

The callback function receives HOOK_VALUE as its first argument
whenever it is invoked. It should return up to COUNT bytes in
BUFFER, and return the number of bytes actually read in NREAD. It
may return 0 in NREAD if no data is currently available. To
indicate EOF the function should return with an error code of
-1 and set NREAD to 0. The callback function may support to
reset its internal read pointer if it is invoked with BUFFER and
NREAD being NULL and COUNT being 0.

The function returns the error code GPG_ERR_NO_ERROR if the data
object was successfully created, GPG_ERR_INV_VALUE if DH or
READFUNC is not a valid pointer, and GPG_ERR_ENOMEM if not enough
memory is available.

-- Function: gpgme_error_t gpgme_data_rewind (gpgme_data_t DH)
The function gpgme_data_rewind is equivalent to:

        return (gpgme_data_seek (dh, 0, SEEK_SET) == -1)
        ? gpgme_error_from_errno (errno) : 0;

-- Data type: gpgme_attr_t
The gpgme_attr_t type is used to specify a key or trust item
attribute. The following attributes are defined:

GPGME_ATTR_KEYID
This is the key ID of a sub key. It is representable as a string.

For trust items, the trust item refers to the key with this ID.

GPGME_ATTR_FPR
This is the fingerprint of a sub key. It is representable as a string.

GPGME_ATTR_ALGO
This is the crypto algorithm for which the sub key can be used. It is representable as a string and as a number. The numbers correspond to the enum gcry_pk_algos values in the gcrypt library.

GPGME_ATTR_LEN
This is the key length of a sub key. It is representable as a number.

GPGME_ATTR_CREATED
This is the timestamp at creation time of a sub key. It is representable as a number.

GPGME_ATTR_EXPIRE
This is the expiration time of a sub key. It is representable as a number.

GPGME_ATTR_OTRUST
XXX FIXME (also for trust items)

GPGME_ATTR_USERID
This is a user ID. There can be more than one user IDs in a GPGME_KEY_T object. The first one (with index 0) is the primary user ID. The user ID is representable as a number.

For trust items, this is the user ID associated with this trust item.

GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is
representable as a string.

**GPGME_ATTRCOMMENT**
This is the comment belonging to a user ID. It is representable as a string.

**GPGME_ATTRVALIDITY**
This is the validity belonging to a user ID. It is representable as a string and as a number. See below for a list of available validities.

For trust items, this is the validity that is associated with this trust item.

**GPGME_ATTRUID_REVOLED**
This specifies if a user ID is revoked. It is representable as a number, and is 1 if the user ID is revoked, and 0 otherwise.

**GPGME_ATTRUIDINVALID**
This specifies if a user ID is invalid. It is representable as a number, and is 1 if the user ID is invalid, and 0 otherwise.

**GPGME_ATTRLEVEL**
This is the trust level of a trust item.

**GPGMEATTRTYPE**
This returns information about the type of key. For the string function this will either be "PGP" or "X.509". The integer function returns 0 for PGP and 1 for X.509. It is also used for the type of a trust item.

**GPGMEATTRSECRET**
This specifies if the key is a secret key. It is representable as a number, and is 1 if the key is revoked, and 0 otherwise.

**GPGME_ATTRKEY_REVOLED**
This specifies if a sub key is revoked. It is representable as a number, and is 1 if the key is revoked, and 0 otherwise.

**GPGME_ATTRKEYINVALID**
This specifies if a sub key is invalid. It is representable as a number, and is 1 if the key is invalid, and 0 otherwise.
GPGME_ATTR_KEY_EXPIRED
This specifies if a sub key is expired. It is representable as a number, and is 1 if the key is expired, and 0 otherwise.

GPGME_ATTR_KEY_DISABLED
This specifies if a sub key is disabled. It is representable as a number, and is 1 if the key is disabled, and 0 otherwise.

GPGME_ATTR_KEY_CAPS
This is a description of the capabilities of a sub key. It is representable as a string. The string contains the letter e if the key can be used for encryption, s if the key can be used for signatures, and c if the key can be used for certifications.

GPGME_ATTR_CAN_ENCRYPT
This specifies if a sub key can be used for encryption. It is representable as a number, and is 1 if the sub key can be used for encryption, and 0 otherwise.

GPGME_ATTR_CAN_SIGN
This specifies if a sub key can be used to create data signatures. It is representable as a number, and is 1 if the sub key can be used for signatures, and 0 otherwise.

GPGME_ATTR_CAN_CERTIFY
This specifies if a sub key can be used to create key certificates. It is representable as a number, and is 1 if the sub key can be used for certifications, and 0 otherwise.

GPGME_ATTR_SERIAL
The X.509 issuer serial attribute of the key. It is representable as a string.

GPGME_ATTR_ISSUE
The X.509 issuer name attribute of the key. It is representable as a string.

GPGME_ATTR_CHAINID
The X.509 chain ID can be used to build the certification chain. It is representable as a string.

-- Function: const char * gpgme_key_get_string_attr (gpgme_key_t KEY, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_get_string_attr returns the value of the string-representable attribute WHAT of key KEY. If the attribute
is an attribute of a sub key or an user ID, IDX specifies the sub key or user ID of which the attribute value is returned. The argument RESERVED is reserved for later use and should be NULL.

The string returned is only valid as long as the key is valid.

The function returns 0 if an attribute can't be returned as a string, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

-- Function: unsigned long gpgme_key_get_ulong_attr (gpgme_key_t KEY, gpgme_attr_t WHAT, const void *RESERVED, int IDX)

The function gpgme_key_get_ulong_attr returns the value of the number-representable attribute WHAT of key KEY. If the attribute is an attribute of a sub key or an user ID, IDX specifies the sub key or user ID of which the attribute value is returned. The argument RESERVED is reserved for later use and should be NULL.

The function returns 0 if the attribute can't be returned as a number, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

The signatures on a key are only available if the key was retrieved via a listing operation with the GPGME_KEYLIST_MODE_SIGS mode enabled, because it is expensive to retrieve all signatures of a key.

So, before using the below interfaces to retrieve the signatures on a key, you have to make sure that the key was listed with signatures enabled. One convenient, but blocking, way to do this is to use the function gpgme_get_key.

-- Data type: gpgme_attr_t

The gpgme_attr_t type is used to specify a key signature attribute. The following attributes are defined:

GPGME_ATTR_KEYID

This is the key ID of the key which was used for the signature. It is representable as a string.

GPGME_ATTR_ALGO

This is the crypto algorithm used to create the signature. It is representable as a string and as a number. The numbers correspond to the enum gcry_pk_algos values in the gcrypt library.

GPGME_ATTR_CREATED

This is the timestamp at creation time of the signature. It is representable as a number.
GPGME_ATTR_EXPIRE
This is the expiration time of the signature. It is representable as a number.

GPGME_ATTR.UserID
This is the user ID associated with the signing key. The user ID is representable as a number.

GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

GPGME_ATTR_KEY_REVOKED
This specifies if a key signature is a revocation signature. It is representable as a number, and is 1 if the key is revoked, and 0 otherwise.

GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

GPGME_ATTR_SIG_STATUS
This is the same value as returned by gpgme_get_sig_status.

-- Function: const char * gpgme_key_sig_get_string_attr
(gpgme_key_t KEY, int UID_IDX, gpgme_attr_t WHAT,
const void *RESERVED, int IDX)
The function gpgme_key_sig_get_string_attr returns the value of the string-representable attribute WHAT of the signature IDX on the user ID UID_IDX in the key KEY. The argument RESERVED is reserved for later use and should be NULL.

The string returned is only valid as long as the key is valid.
The function returns 0 if an attribute can't be returned as a string. KEY is not a valid pointer, UID_IDX or IDX out of range, or RESERVED not NULL.

-- Function: unsigned long gpgme_key_sig_get_ulong_attr
(gpgme_key_t KEY, int UID_IDX, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_key_sig_get_ulong_attr returns the value of the number-representable attribute WHAT of the signature IDX on the user ID UID_IDX in the key KEY. The argument RESERVED is reserved for later use and should be NULL.

The function returns 0 if an attribute can't be returned as a string. KEY is not a valid pointer, UID_IDX or IDX out of range, or RESERVED not NULL.

Trust items have attributes which can be queried using the interfaces below. The attribute identifiers are shared with those for key attributes. *Note Information About Keys:::

-- Function: const char * gpgme_trust_item_get_string_attr
(gpgme_trust_item_t ITEM, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_trust_item_get_string_attr returns the value of the string-representable attribute WHAT of trust item ITEM. The arguments IDX and RESERVED are reserved for later use and should be 0 and NULL respectively.

The string returned is only valid as long as the key is valid.

The function returns 0 if an attribute can't be returned as a string. KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.

-- Function: int gpgme_trust_item_get_int_attr
(gpgme_trust_item_t ITEM, gpgme_attr_t WHAT, const void *RESERVED, int IDX)
The function gpgme_trust_item_get_int_attr returns the value of the number-representable attribute WHAT of trust item ITEM. If the attribute occurs more than once in the trust item, the index is specified by IDX. However, currently no such attribute exists, so IDX should be 0. The argument RESERVED is reserved for later use and should be NULL.

The function returns 0 if the attribute can't be returned as a number, KEY is not a valid pointer, IDX out of range, or RESERVED not NULL.
-- Data type: enum gpgme_sig_stat_t
The gpgme_sig_stat_t type holds the result of a signature check, or the combined result of all signatures. The following results are possible:

GPGME_SIG_STAT_NONE
This status should not occur in normal operation.

GPGME_SIG_STAT_GOOD
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

GPGME_SIG_STAT_GOOD_EXP
This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

GPGME_SIG_STAT_GOOD_EXPKEY
This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

GPGME_SIG_STAT_BAD
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

GPGME_SIG_STAT_NOKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

GPGME_SIG_STAT_NOSIG
This status indicates that the signature data provided was not a real signature.

GPGME_SIG_STAT_ERROR
This status indicates that there was some other error which prevented the signature verification.

GPGME_SIG_STAT_DIFF
For the combined result this status means that at least two signatures have a different status. You can get each key status with gpgme_get_sig_status.
The function `gpgme_get_sig_status` is equivalent to:

```c
const char * gpgme_get_sig_status (gpgme_ctx_t CTX,
                                 int IDX, gpgme_sig_stat_t *R_STAT, time_t *R_CREATED)
```

```c
-- Function: const char * gpgme_get_sig_status (gpgme_ctx_t CTX,
                               int IDX, gpgme_sig_stat_t *R_STAT, time_t *R_CREATED)
```

```c
const char * gpgme_get_sig_status (gpgme_ctx_t CTX,
                                 int IDX, gpgme_sig_stat_t *R_STAT, time_t *R_CREATED)
```

```c
gpgme_verify_result_t result;
gpgme_signature_t sig;
```

```c
result = gpgme_op_verify_result (ctx);
sig = result->signatures;
```

```c
while (sig && idx)
{
    sig = sig->next;
    idx--;
}
```

```c
if (!sig || idx)
    return NULL;
```

```c
if (r_stat)
{
    switch (gpg_err_code (sig->status))
```

```c
    case GPG_ERR_NO_ERROR:
        *r_stat = GPGME_SIG_STAT_GOOD;
        break;
```

```c
    case GPG_ERR_BAD_SIGNATURE:
        *r_stat = GPGME_SIG_STAT_BAD;
        break;
```

```c
    case GPG_ERR_NO_PUBKEY:
        *r_stat = GPGME_SIG_STAT_NOKEY;
        break;
```

```c
    case GPG_ERR_NO_DATA:
        *r_stat = GPGME_SIG_STAT_NOSIG;
        break;
```

```c
    case GPG_ERR_SIG_EXPIRED:
        *r_stat = GPGME_SIG_STAT_GOOD_EXP;
        break;
```

```c
    case GPG_ERR_KEY_EXPIRED:
        *r_stat = GPGME_SIG_STAT_GOOD_EXPKEY;
        break;
```

```c
    default:
```
*r_stat = GPGME_SIG_STAT_ERROR;
break;
}
}
if (r_created)
*r_created = sig->timestamp;
return sig->fpr;

-- Function: const char * gpgme_get_sig_string_attr (gpgme_ctx_t CTX,
    int IDX, gpgme_attr_t WHAT, int WHATIDX)
The function gpgme_get_sig_string_attr is equivalent to:

    gpgme_verify_result_t result;
    gpgme_signature_t sig;

    result = gpgme_op_verify_result (ctx);
    sig = result->signatures;

    while (sig && idx)
    {
        sig = sig->next;
        idx--;
    }
if (!sig || idx)
    return NULL;

    switch (what)
    {
    case GPGME_ATTR_FPR:
        return sig->fpr;

    case GPGME_ATTR_ERRTOK:
        if (whatidx == 1)
            return sig->wrong_key_usage ? "Wrong_Key_Usage" : "";
        else
            return "";
    default:
        break;
    }

    return NULL;

-- Function: const char * gpgme_get_sig_ulong_attr (gpgme_ctx_t CTX,
    int IDX, gpgme_attr_t WHAT, int WHATIDX)
The function gpgme_get_sig_ulong_attr is equivalent to:

    gpgme_verify_result_t result;
    gpgme_signature_t sig;
result = gpgme_op_verify_result(ctx);
sig = result->signatures;

while (sig && idx)
{
    sig = sig->next;
    idx--;
}
if (!sig || idx)
    return 0;

switch (what)
{
    case GPGME_ATTR_CREATED:
        return sig->timestamp;
    case GPGME_ATTR_EXPIRE:
        return sig->exp_timestamp;
    case GPGME_ATTR_VALIDITY:
        return (unsigned long) sig->validity;
    case GPGME_ATTR_SIG_STATUS:
        switch (sig->status)
        {
            case GPG_ERR_NO_ERROR:
                return GPGME_SIG_STAT_GOOD;
            case GPG_ERR_BAD_SIGNATURE:
                return GPGME_SIG_STAT_BAD;
            case GPG_ERR_NO_PUBKEY:
                return GPGME_SIG_STAT_NOKEY;
            case GPG_ERR_NO_DATA:
                return GPGME_SIG_STAT_NOSIG;
            case GPG_ERR_SIG_EXPIRED:
                return GPGME_SIG_STAT_GOOD_EXP;
            case GPG_ERR_KEY_EXPIRED:
                return GPGME_SIG_STAT_GOOD_EXPKEY;
            default:
                return GPGME_SIG_STAT_ERROR;
        }
}
case GPGME_ATTR_SIG_SUMMARY:
    return sig->summary;

default:
    break;
}
return 0;

-- Function: const char * gpgme_get_sig_key (gpgme_ctx_t CTX, int IDX, gpgme_key_t *R_KEY)
The function gpgme_get_sig_key is equivalent to:

    gpgme_verify_result_t result;
    gpgme_signature_t sig;

    result = gpgme_op_verify_result (ctx);
    sig = result->signatures;

    while (sig && idx)
    {
        sig = sig->next;
        idx--;
    }
    if (!sig || idx)
        return gpg_error (GPG_ERR_EOF);
    return gpgme_get_key (ctx, sig->fpr, r_key, 0);

File: gpgme.info, Node: Library Copying, Next: Copying, Prev: Deprecated Functions, Up: Top

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Version 2.1, February 1999

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* OUTPUT <2>: UI Server Decrypt. (line 19)
* OUTPUT <3>: UI Server Verify. (line 23)
* PREP_ENCRYPT: UI Server Encrypt. (line 72)
* PROTOCOL: UI Server Encrypt. (line 98)
* RECIPIENT: UI Server Encrypt. (line 9)
* SENDER: Miscellaneous UI Server Commands.
* SESSION: Miscellaneous UI Server Commands.

* SIGN: UI Server Sign. (line 33)
* SIGN_FILES: UI Server Sign/Encrypt Files.

* SIGSTATUS: UI Server Verify. (line 56)

* ssize_t (*gpgme_data_read_cb_t) (void *HANDLE, void *BUFFER, size_t SIZE): Callback Based Data Buffers.

* ssize_t (*gpgme_data_write_cb_t) (void *HANDLE, const void *BUFFER, size_t SIZE): Callback Based Data Buffers.

* struct gpgme_data_cbs: Callback Based Data Buffers.

* struct gpgme_io_cbs: Registering I/O Callbacks.

* VERIFY: UI Server Verify. (line 31)
* VERIFY_FILES: UI Server Verify/Decrypt Files.

* void (*gpgme_data_release_cb_t) (void *HANDLE): Callback Based Data Buffers.

* void (*gpgme_event_io_cb_t) (void *DATA, gpgme_event_io_t TYPE, void *TYPE_DATA): I/O Callback Interface.

* void (*gpgme_progress_cb_t)(void *HOOK, const char *WHAT, int TYPE, int CURRENT, int TOTAL): Progress Meter Callback.

* void (*gpgme_remove_io_cb_t) (void *TAG): I/O Callback Interface.

* window-id: Miscellaneous UI Server Commands.

* Maintenance Mode from 2019
From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

** Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

** Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.
In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [[https://lists.gnupg.org/mailman/listinfo/gnupg-devel][gnupg-devel mailing list]].

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to [[https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset][expedite it]] (use the message field to state what feature is being requested).

** Documentation formats

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.
Though Python's Docutils in conjunction with Sphinx is capable of
generating some very useful HTML sites, as proven by [[https://readthedocs.org/][Read the Docs]] and
the [[https://docs.python.org/][Python documentation]], there are a number of output formats it does
not handle well. At the top of the list of things it manages to break
so atrociously as to be embarassing is the [[http://idpf.org/epub][EPUB 3]] format.

The automatically generated EPUB of the CPython documentation always
contains hundreds of validation errors and even the modest amount of
documentation here [[https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-
python/rst/epub/GPGMEPythonBindings.epub][produced a file]] with approximately thirty
validation errors. As the volume of documentation content increases,
so does the induced errors. Whereas Texinfo doesn't produce EPUB
output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
[[https://dev.gnupg.org/maniphest/task/edit/form/4/][feature
request]] case marked for [[https://dev.gnupg.org/p/BenM/][my]] attention. The means of generating such
files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting
Org mode input files to the relevant base format automatically, as can
already be done when converting Org to reStructuredText or Org to
Texinfo. As a certain amount of work would be required to get it
done, there would need to be clear demand for that work to be done.
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...
  (CLEANFILES): ... here.
  (clean-local): New rule.
* gpg/Makefile.am (DISTCLEANFILES): Move to ...
  (CLEANFILES): ... here.

2011-05-05 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am: Unset GPG_AGENT_INFO when setting up local
  configuration.
(clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

* gpg/t-import.c (check_result): Complete secret key pair counting and disable status check, as GPG 2.1 currently emits two IMPORT_OK lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>

* gpg/pubkey-1.asc, gpg/seckey-1.asc: Change passphrase to "abc" (now needed as GnuPG 2.1 asks for secret key passphrase on import).
* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker. (main): Disable check for can_encrypt, as this is now in a different subkey.
* gpg/t-encrypt-sign.c (check_result): Allow RMD160 hash algorithm.
* gpg/t-import.c (check_result): One secret key pair now counts as two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

* run-support.h (fail_if_err): Include program name.

* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

* run-verify.c: New.

2009-08-06 Werner Koch <wk@g10code.com>

* run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

* run-keylist.c (main): Add options --cms and --openpgp.
* gpg/pgp-keylist.c: Rename to ...
* run-keylist.c: ... this.
* gpg/pgp-import.c: Rename to ...
* run-import.c: ... this.
* gpg/pgp-export.c: Rename to ...
* run-export.c: ... this.
* run-support.h: New. Copied from gpg/t-support.h.
* gpg/Makefile.am (noinst_PROGRAMS): Remove them.
* Makefile.am (noinst_PROGRAMS): Add them.
(noinst_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-support.h (passphrase_cb): Implement write() according to
  the book to silence compiler warning.
* gpgsm/t-support.h (passphrase_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

* gpg/pgp-import.c: New.
* gpg/t-support.h (print_import_result, nonnull): Factored out
  from other tools.

* gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-06-09 Werner Koch <wk@g10code.com>

* gpg/Makefile.am (/pubring.gpg): Ignore errors in case of
  already imported keys. Add --no-permission-warning and remove
  obsolete --allow-secret-key-import.
* gpg/mkdemodirs.in (GPG): Add --no-permission-warning.

* gpg/t-edit.c (edit_fnc): Use gpgme_io_write.

2009-04-19 Moritz <moritz@gnu.org>

* gpg/Makefile.am (EXTRA_DIST): Replaced mkdemodirs with mkdemodirs.in.
  (mkdemodirs): New target.
  (clean-local): Added command for removing mkdemodirs script.
  (/Alpha/Secret.gpg): Added dependency on mkdemodirs.

* gpg/mkdemodirs: Renamed to ...
* gpg/mkdemodirs.in: ... here.
* gpg/mkdemodirs.in (GPG): Derive value from @GPG@ instead of
  hard-coding "gpg".

2009-02-24 Werner Koch <wk@g10code.com>
* **opassuan/t-command.c**: Adjust for changed new op_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

* **gpg/t-keylist.c (main)**: Check that new fields is_cardkey and card_number are not set.

2009-01-26 Werner Koch <wk@g10code.com>

* **opassuan/**: New.
* **opassuan/Makefile.am**: New.
* **opassuan/t-command.c**: New.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

* **Makefile.am** (INCLUDES): Fix path to include file.
* **gpg/Makefile.am** (INCLUDES), **gpgsm/Makefile.am** (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

* **gpgsm/cms-decrypt.c**: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

* **gpgsm/Makefile.am** (INCLUDES, LDADD): Replace gpgme path with src.
* **gpg/Makefile.am** (INCLUDES, LDADD, t_thread1_LDADD): Likewise.
* **Makefile.am** (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

* **gpgsm/cms-keylist.c**: New.

2008-06-19 Werner Koch <wk@g10code.com>


2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* **gpg/Makefile.am** (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* **gpg/t-gpgconf.c** (main): Allow for dirmngr not to be available.
* **gpg/Makefile.am** (-/gpg-agent.conf): Correct pinentry path.
* gpg/Makefile.am (DISTCLEANFILES, all-local): Add gpg-agent.conf
  (EXTRA_DIST): Add pinentry.

* gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

* Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
  GNUPGHOME.
* gpg/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
  GNUPGHOME.
* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
  GNUPGHOME.
* gpg/Makefile.am (TESTS): Add t-gpgconf.
  t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (show_auditlog): Check for GPG_ERR_ASS_UNKNOWN_CMD.

2007-11-23 Werner Koch <wk@g10code.com>

* gpgsm/t-verify.c (check_result): Don't exit on error but set a flag.
  (main): Consult flag for return value.
  (show_auditlog): New.
  (main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c (check_engine_info): Fix debug output.
* gpg/Makefile.am (tests_unix): New variable.
  (TESTS): Use it.
* gpg/t-support.h (passphrase_cb) [HAVE_W32_SYSTEM]: Use WriteFile instead of write.
* gpg/t-wait.c [HAVE_W32_SYSTEM]: Define sleep as _sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>
* gpgsm/t-support.h (init_gpgme) [W32]: Do not init the locales as the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

* gpg/t-verify.c (double_plaintext_sig): New.
  (main): Check it.

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Changed for that secondary keys now have a fingerprint.
* gpg/t-keylist-sig.c (main): Ditto.
* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to Whisky.
* gpg/t-keylist.c: Reordered list to match new demo keyring. Add arg for number of subkeys and for extra checking function.
  (main): Enhanced a few error outputs. Changed subkey counting. Call extra checking function.
  (check_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Allow for an email address as a second uid.

* gpg/t-sig-notation.c: Change critical notation to something GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Remove gpg.conf.
  (DISTCLEANFILES): Add gpg.conf.
  (all-local): Add gpg.conf.
  (.gpg.conf): New target.
* gpg/gpg.conf: Remove file.

* gpg/Makefile.am (EXTRA_DIST): Add gpg.conf.
* gpg/Makefile.am (TESTS): Add t-sig-notation.
* gpg/t-sig-notation.c (check_result): New file.
* gpg/t-verify.c (check_result): Also check the length of the notation data.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-filename.

2005-09-23 Werner Koch <wk@g10code.com>

* gpg/t-support.h (init_gpgme) [W32]: Don't use LC_MESSAGES.

* gpg/t-encrypt-large.c: New test.
* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-wait.
* gpg/t-wait.c (main): New test.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* gpg/mkdemodirs: Add copyright notice.

* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c, gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c, gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c, gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c, gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c, gpg/t-encrypt-large.c, gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c, gpg/t-eventloop.c, gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c, gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c, gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c, gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c, t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and KEY_LENGTH.
  (main): Use them.
* gpgsm/t-import.c (check_result): New argument total_stat.
  (main): Pass this argument. Reduce number of total considered keys to 1 for the second test.
2004-04-05 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: Add chain IDs.

2004-03-03 Werner Koch <wk@gnupg.org>

* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgsm/t-import.c (check_result): gpgsm does now return info in the result->imports; adjust for that.

* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Reset the GPG_AGENT_INFO.

    Include config.h at the top of each C source. This is required due to LFS support.

* gpg/t-keylist-sig.c (main): s/class/sig_class/.
* gpg/t-signers.c (check_result): Ditto.
* gpg/t-sign.c (check_result): Ditto.
* gpg/t-encrypt-sign.c (check_result): Ditto.
* gpgsm/t-sign.c (check_result): Ditto.

2004-01-12 Werner Koch <wk@gnupg.org>

* gpg/t-keylist-sig.c (main): Temporary disabled one test due top gpg 1.3.4 problems.
* gpg/t-import.c (check_result): Likewise.

2003-11-19 Werner Koch <wk@gnupg.org>

* gpg/t-support.h (DIM): Added.

* gpg/t-verify.c (check_result): Rewrote test for notations because the order of notaions is not guaranteed.

* gpgsm/t-support.h (fail_if_err): Also print the numeric values.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c: Include <sys/types.h> for old systems.
* gpgsm/Makefile.am (DISTCLEANFILES): Add random_seed.

* gpg/t-thread1.c (thread_one): Do not call initialize_gpgme.
Likewise.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-thread1.c (main): Call init_gpgme here.
(initialize_gpgme): Function removed.

* gpg/t-thread1.c: New file.
* gpg/Makefile.am (TESTS): Add t-thread1.c.
(t_thread1_LDADD): New variable.
(LDADD): Remove GPG Error lib.
* gpgsm/Makefile.am (LDADD): Likewise.

* gpg/t-import.c (main): Likewise.
* gpg/t-keylist-sig.c (main): Likewise.
* gpg/t-keylist.c (main): Likewise.
* gpg/t-sign.c (main): Likewise.
* gpg/t-signers.c (main): Likewise.
* gpg/t-trustlist.c (main): Likewise.
* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>.
(init_gpgme): New function.
* gpg/t-support.h: Likewise.
* gpgsm/t-verify.c (main): Call init_gpgme.
* gpgsm/t-decrypt.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-genkey.c (main): Likewise.
* gpgsm/t-import.c (main): Likewise.
* gpgsm/t-keylist.c (main): Likewise.
* gpgsm/t-sign.c (main): Likewise.
* gpg/t-sign.c (check_result): Change output format for signature class to unsigned int.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-sign.c (check_result): Change output format for signature class to unsigned int.
* gpg/t-signers.c (check_result): Likewise.
* gpg/t-encrypt-sign.c (check_result): Likewise.
* gpgsm/t-sign.c (check_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (check_result): Change type of SUMMARY to unsigned int.
* gpg/t-decrypt-verify.c (check_verify_result): Likewise.
* gpg/t-keylist-sig.c (keys): Change type of member CLASS to unsigned int.
* t-data.c (read_cb): Change type of AMOUNT to unsigned int.
* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.
* gpg/Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.
* gpgsm/Makefile.am (AM_CPPFLAGS): New variable.
  (LDADD): Add @GPG_ERROR_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* gpg/Makefile.am (noinst_HEADERS): New variable.
* gpg/t-support.h: New file.
* gpgsm/Makefile.am (noinst_HEADERS): New variable.
* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Rewrite recipient management.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after t-import.
* gpg/t-edit.c (edit_fnc): Fix primary UID for keylisting tests.
* gpg/t-keylist.c: Change order of user IDs.
* gpg/t-keylist-sig.c: Likewise.
* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Remove TEST_OUT_CB.
  (main): Likewise.
* gpg/t-trustlist.c (main): Access ITEM directly.
  * (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c, t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>,
    (passphrase_cb): Rewritten.
  * t-edit.c (edit_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-keylist-sig.c (main): Remove timestamp check.

* gpgsm/t-keylist.c: Add check for timestamp.

* gpg/Makefile.am (TESTS): Add t-keylist-sig.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Do not call print_op_info.
  (print_op_info): Function removed.

* gpg/t-keylist.c: Rewritten.
  * gpgsm/t-keylist.c (main): Rewritten.
  * gpg/t-edit.c (main): Do not use gpgme_key_get_as_xml. Use
    gpgme_key_unref instead gpgme_key_release.
  * gpg/t-signers.c (main): Use gpgme_key_unref instead
    gpgme_key_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-trustlist.c: Rewritten.

* gpg/t-verify.c (main): Rewritten.
* gpg/t-decrypt-verify.c: Rewritten.
* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c (main): Rewritten.
* gpg/t-decrypt.c: Rewritten.
* gpg/t-signers.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sign.c (check_result): Rewritten.
* gpg/t-sign.c: Rewritten.
* gpgsm/t-sign.c: Rewritten.
* gpg/t-encrypt.c: Check for invalid recipients.
  * gpgsm/t-encrypt.c: Likewise.
* gpgsm/t-import.c (check_result): Really use FPR.
  * gpgsm/t-import.c (check_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c: Rewritten.
* gpgsm/t-genkey.c: Rewritten.
* gpgsm/Makefile.am (noinst_PROGRAMS): Add t-genkey.
* gpg/t-genkey.c: Include <stdlib.h>.
  (main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt.c (passphrase_cb): Fix to new prototype.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-edit.c (passphrase_cb): Likewise.
* gpg/t-encrypt-sign.c (passphraseCb): Likewise.
  * gpg/t-encrypt-sym.c (passphrase_cb): Likewise.
  * gpg/t-sign.c (passphrase_cb): Likewise.
  * gpg/t-signers.c (passphraseCb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>
* t-engine-info.c: Use file_name instead path throughout.

* Makefile.am (TESTS): Add t-engine-info.
* t-engine-info.c: New file.
* gpg/t-encrypt.c (main): Don't print engine info.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Adjust caller of gpgme_op_verify.
* gpg/t-verify.c (main): Likewise.
* gpg/t-decrypt-verify.c (main): Likewise for gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (/gpgsm.conf): Add a faked system time to avoid certification's expiry.
* gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c (main): Add missing argument to gpgme_op_genkey invocation.

2002-10-09 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt.c (print_data): Update to new gpgme_data_read interface, and use gpgme_engine_check_version instead gpgme_check_version.
* gpg/t-decrypt-verify.c (print_data): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt.c (print_data): Likewise.
* gpg/t-encrypt-sign.c (print_data): Likewise.
* gpg/t-encrypt-sym.c (print_data): Likewise.
* gpg/t-eventloop.c (print_data): Likewise.
* gpg/t-export.c (print_data): Likewise.
* gpg/t-sign.c (print_data): Likewise.
* gpg/t-signers.c (print_data): Likewise.
* gpgsm/t-decrypt.c (print_data): Likewise.
* gpgsm/t-encrypt.c (print_data): Likewise.
* gpgsm/t-export.c (print_data): Likewise.
* gpgsm/t-sign.c (print_data): Likewise.
* gpgsm/t-verify.c (main): Likewise for gpgme_op_verify.
* gpgsm/t-verify.c (main): Likewise for gpgme_op_verify.
* t-data.c (read_once_test): Likewise.
(write_test): Update for new behaviour of data objects.
(main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>
* gpgsm/t-keylist.c (doit): Add arg SECRET.
(main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>
* t-version.c: Include <string.h>. Reported by Stphane Corthsy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>
* gpg/t-keylist.c (main): Test PATTERN for NULL before printing.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>
* gpg/t-edit.c: Also add a test for the expire command (testing
the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>
* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>
* gpg/t-encrypt-sym.c (main): Change type of I to size_t and
rename to LEN.
* gpg/t-verify.c (main): Likewise. Submitted by Stphane
Corthsy.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>
* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>
* gpgsm/t-import.c (print_op_info): New.
(main): Print operation info.

2002-06-25 Werner Koch <wk@gnupg.org>
* gpgsm/Makefile.am (DISTCLEANFILES): new.
2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-export.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgsm/t-sign.c (main): Also test a normal signature.

* gpg/Makefile (TESTS_ENVIRONMENT): Set GPG_AGENT_INFO empty.
* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c
* gpg/t-encrypt-sign.c, gpg/t-decrypt.c
* gpg/t-decrypt-verify.c (main): Changed the GPG_AGENT_INFO check to match the one in ../../../gnupgme/runpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgsm/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.

2002-06-04 Werner Koch <wk@gnupg.org>

* gpgsm/t-encrypt.c (main): Add a simple option parser and allow to specify an encryption key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg.
  (./secring.gpg): Remove target, and move all rules for this target to ...
  (./pubring.gpg): ... here. This was necessary because GnuPG 1.0.7 does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpg/t-verify.c (validity_string): New.
  (print_sig_stat): Print expire time and validity.
  (status_string): Add new exipred stati.
2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (/trustlist.txt): Put more into this file to prevent use of gpg-agent.
  (.gpg-agent.conf): Remove target.
  (all-local): Remove /gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Use gpgme_engine_check_version instead gpgme_check_engine.
  * gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

  * gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Remove random_seed, which is now in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>

* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (main): Add a few more sanity checks, and a check for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

  * gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (private-keys-v1.d): Don't fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): New target.
  (distclean-local): Rename to ...
  (clean-local): ... this.
2002-02-09 Marcus Brinkmann <marcus@g10code.de>


2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-genkey.c: New file (not added to Makefile.am because of gpg-agent bug).

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Update value.
  (all-local): Add .key to keyid filename.
  (/private-keys-v1.d/$($key_id)): Renamed to ...
  (/private-keys-v1.d/$($key_id).key): ... this.
  (all-local): Add ./gpgsm.conf, ./trustlist.txt.
  (.gpgsm.conf, ./trustlist.txt): New target.
  * gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Renamed to ...
  * gpgsm/32100C27173EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c (print_op_info): New function.
  (main): Use it.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-signers.c (passphrase_cb): Change type of r_hd to void**.
* gpg/t-sign.c (passphrase_cb): Likewise.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-decrypt.c (passphrase_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by Stphane Corthsy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (EXTRA_DIST): Add $($key_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.
2001-12-15 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (check_two_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-sign.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-decrypt.
(key_id): New variable.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-verify.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (GPG): Set to @GPG_PATH@.
./pubring.gpg: Use $(GPG) instead gpg.
./secring.gpg: Likewise.

* gpgsm/t-import.c (main): Remove third test case.
* gpgsm/Makefile.am (GPGSM): Set to @GPGSM@.
(all-local): New target.
./pubcerts.kbx: Likewise.
* gpgsm/t-encrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/cert_dfn_pca01.der: New file.
* gpgsm/cert_dfn_pca15.der: Likewise.
* gpgsm/cert_g10code_test1.der: Likewise.
* gpgsm/t-import.c: Likewise.
* gpgsm/Makefile.am (EXTRADIST): Add new files. (TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/: New directory.
* Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c, t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c, t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs. cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc, secdemo.asc, seckey-1.asc): Move to sub directory gpg/.

* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and intl/.
(LDD): Correct relative path to gpgme library.
(TESTS): Remove t-version and t-data.
* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c, gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c, gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c, t-version.c, t-data.c): Include gpgme.h, not "./gpgme/gpgme.h".

* gpgsm/: New directory.
* gpgsm/Makefile.am: New file.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TESTS): Add t-decrypt-verify.
* t-decrypt-verify.c: New file.
* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Include stddef.h.
(read_once_test): Change type of READ to size_t.
(read_test): Likewise.
(write_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* t-signers.c: New file.
* Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>
* Makefile.am (TEST_ENVIRONMENT): Set environment to $(srcdir), not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* t-data.c (write_test): New function.
  (main): Invoke write_test for all rounds except TEST_OUT_CB.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (INCLUDES): Remove spurious duplicate to silence automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

* t-version.c: New file.
  * t-data.c: Likewise.
  * t-data-1.txt: Likewise.
  * t-data-2.txt: Likewise.
  * Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>

* t-keylist.c (check_two_contexts): New.

2001-09-03 Werner Koch <wk@gnupg.org>

* t-encrypt.c (print_op_info): New and use it after each operation.

2001-08-28 Werner Koch <wk@gnupg.org>

* t-sign.c (print_op_info): New and use it after each operation.

2001-03-15 Werner Koch <wk@gnupg.org>

* t-keylist.c (doit): List subkeys too, show caps.

2001-02-13 Werner Koch <wk@gnupg.org>

* t-verify.c (print_sig_stat): Repaled ulong by unsigned long because we don't use the config stuff here.

2001-02-12 Werner Koch <wk@gnupg.org>

* tests/t-verify.c (print_sig_stat): Print info about the keys.
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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010UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority!0*H
certify@pca.dfn.de0
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Deutsches Forschungsnetz10UDFN-PCA1+0)U"DFN Server Certification Authority!1!0*H
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1 xOK?ps
# -.*: mode: org -.*
#+TITLE: What's New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage[xlxtra]
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org> }

* What's New
:PROPERTIES:
:CUSTOM_ID: new-stuff
:END:

| Version: | 0.0.1 |
| GPGME Version: | 1.13.0 |
| Author: | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language: | Australian English, British English |
| xml:lang: | en-AU, en-GB, en |

Last time the most obviously new thing was adding the /What's New/ section to the HOWTO. Now it's moving it out of the HOWTO.

** New in GPGME 1130
:PROPERTIES:
:CUSTOM_ID: new-stuff-1-13-0
Additions since GPGME 1.12.0 include:

- Moving the /What's New/ section out of the basic [[file:gpgme-python-howto.org][HOWTO]] document and into its own file so as to more readily include other documents beyond that HOWTO.
- Moving the preceding, archival, segments into [[file:what-was-new.org][another file]].
- Added =gpg.version.versionintlist= to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows users.
- Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.
- The import-keys-hkp.py example script, which uses the =hkp4py= module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

(CRLs, Certificates)

HTTP Server

(CRLs)

DirMngr

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 11771
Certificate Cache

CRL Cache
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 11775
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Keybox Files

Private Keys

Scute

(pkcs#11)

GPGME Library
NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.
* Makefile.am: Remove build rules for libgpgme-pth.
* gpgme.m4: Remove support for libgpgme-pth.

2011-05-26 Marcus Brinkmann <marcus@g10code.com>

* decrypt.c (gpgme_op_decrypt_start, gpgme_op_decrypt): Check CTX.
* decrypt-verify.c (gpgme_op_decrypt_verify_start)
  (gpgme_op_decrypt_verify): Likewise.
* delete.c (gpgme_op_delete_start, gpgme_op_delete): Likewise.
* edit.c (gpgme_op_edit_start, gpgme_op_edit)
  (gpgme_op_card_edit_start, gpgme_op_card_edit): Likewise.
* encrypt.c (gpgme_op_encrypt_start, gpgme_op_encrypt): Likewise.
* encrypt-sign.c (gpgme_op_encrypt_sign_start)
  (gpgme_op_encrypt_sign): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start, gpgme_op_genkey): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start)
  (gpgme_op_getauditlog): Likewise.
* gpgconf.c (gpgme_op_conf_load, gpgme_op_conf_save): Likewise.
* import.c (gpgme_op_import_start, gpgme_op_import_keys_start)
  (gpgme_op_import_keys, gpgme_op_import): Likewise.
* keylist.c (gpgme_op_keylist_start, gpgme_op_keylist_ext_start):
  Likewise.
* opassuan.c (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact_ext): Likewise.
* passwd.c (gpgme_op_passwd_start, gpgme_op_passwd): Likewise.
* sign.c (gpgme_op_sign_start, gpgme_op_sign): Likewise.
* trustlist.c (gpgme_op_trustlist_start)
  (gpgme_op_trustlist_next): Likewise.
* verify.c (gpgme_op_verify_start, gpgme_get_sig_key): Likewise.
* op-support.c (_gpgme_op_data_lookup): Likewise.
* vfs-create.c (gpgme_op_vfs_transact, gpgme_op_vfs_create): Likewise.
* vfs-mount.c (gpgme_op_vfs_mount, gpgme_op_vfs_transact): Likewise.
* gpgme.c (gpgme_set_protocol)
  (gpgme_set_armor, gpgme_set_include_certs)
  (gpgme_set_keylist_mode, gpgme_set_passphrase_cb)
  (gpgme_set_progress_cb, gpgme_set_io_cbs, gpgme_set_locale)
  (gpgme_ctx_set_engine_info, gpgme_sig_notation_clear): Likewise.
* gpgme.c (gpgme_new): Check for valid R_CTX.
  (gpgme_cancel, gpgme_cancel_async, gpgme_release): Likewise.

2011-04-06 Werner Koch <wk@g10code.com>

* gpgme-config.in: Add option --host. Change options --cflags and
--libs to collapse duplicate include and lib dirs. Try to put extra libs at the end.

* gpgme.h.in: Use INSERT__TYPEDEFS_FOR_GPGME_H to include platform specific typedefs.

2011-02-03 Werner Koch <wk@g10code.com>

* extra-stati.h: New.
* mkstatus: Extend to also process extra-stati.h
* Makefile.am (main_sources): Add extra-stati.h
  (status-table.h): Depend on extra-stati.h and adjust rule.

2011-02-03 Marcus Brinkmann <marcus@g10code.com>

* w32-io.c (_gpgme_io_socket): Return fd, not res.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* assuan-support.c (my_socket, my_connect): New functions.
  (_gpgme_assuan_system_hooks): Add my_Socket, my_connect.
* w32-io.c (pid_to_handle, handle_to_oid, fd_to_handle): Remove macros.
  (is_socket): Remove function.
  (_gpgme_io_spawn) [HAVE_W32CE_SYSTEM]: Remove some dead code.
  (_gpgme_io_spawn): Translate handles before DuplicateHandle them.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* w32-util.c (mkstemp): Don't use CreateFile instead of open (the function is not used on Windows CE, and the callers were not adjusted).

2011-01-21 Marcus Brinkmann <mb@g10code.com>

* engine-gpgconf.c (_gpgme_conf_opt_change): Fix the case that is not self-assignment.

2010-12-08 Werner Koch <wk@g10code.com>

* gpgme-tool.c (strcpy_escaped_plus): New.
  (DIM, xtoi_1, xtoi_2): New.
  (cmd_keylist): Allow for multiple patterns.

2010-11-23 Marcus Brinkmann <mb@g10code.com>

* w32-io.c (create_reader, create_writer): Use small stack size on Windows CE.
2010-11-23 Marcus Brinkmann <mb@g10code.com>

* gpgme.h.in (gpgme_conf_arg_new): Make VALUE arg const void *.
* gpgconf.c (_gpgme_conf_arg_new): Likewise.
  (gpgme_conf_arg_new): Likewise.
* engine-gpgconf.c (_gpgme_conf_arg_new): Likewise.
  (gpgconf_write): Remove debug hack.

2010-11-19 Marcus Brinkmann <mb@g10code.com>


2010-11-17 Marcus Brinkmann <mb@g10code.com>

* vasprintf.c (int_vasprintf) [HAVE_W32CE_SYSTEM]: Just use a fixed size buffer, as va_copy is not easy to fake.

2010-11-15 Marcus Brinkmann <mb@g10code.com>

* w32-ce.h (strcasemp, strdup) [_MSC_VER]: Define.
* genkey.c, passphrase.c: Include util.h.

* w32-util.c (_gpgme_w32ce_get_debug_envvar): Fix return value.

2010-11-15 Werner Koch <wk@g10code.com>

* data-compat.c (gpgme_data_new_from_filepart) (gpgme_data_new_from_file) [W32CE & _MSC_VER]: Return not GPG_ERR_NOT_IMPLEMENTED.

* w32-ce.h (HKEY_PERFORMANCE_DATA, HKEY_CURRENT_CONFIG, _IOLBF) (abort) [_MSC_VER]: Provide these macros.

* ath.h [W32CE & _MSC_VER]: Include winsock2.h.

* ath.c (ath_read, ath_write) [W32CE & _MSC_VER]: Do not call non-available functions.

2010-11-04 Werner Koch <wk@g10code.com>

* w32-ce.h [_MSC_VER & W32CE]: Undef leave.
* export.c: Include util.h so that we get the above undef.

* memrchr.c: Remove. Used to be a replacement function required by the formerly included assuan code.
2010-11-03  Werner Koch  <wk@g10code.com>

* debug.c (_gpgme_debug) [W32CE]: Replace locatime by GetLocalTime.

* signers.c (gpgme_signers_clear): Remove useless return.
  Reported by Patrick Spendrin.

* w32-util.c: s/__inline__/GPG_ERR_INLINE/

* setenv.c: Include string.h due to our strerror replacement.

* w32-ce.h (access, bsearch): New macros.
  * w32-ce.c (_gpgme_winace_access): New.
  (RegQueryValueExA): Change DATA to a void*.
  (_gpgme_winace_bsearch): New. Taken from glibc 2.6.

Guard include of sys/stat.h and sys/types.h.

2010-11-02  Werner Koch  <wk@g10code.com>

* data-fd.c (read, write, lseek) [W32CE & & ! MINGW32CE__]: New.
  Taken from Pedro Alves Public Domain code.

* w32-ce.h (SHGetSpecialFolderPath): Remove our defines and
  prototypes. We use the system provided prototypes now.
  * w32-ce.c: Include shlobj.h
    (_WIN32_IE): Define to 0x0400
    (CreateFileA): New.
  * w32-util.c: Explicitly include windows headers before util.h.
    (_gpgme_w32ce_get_debug_envvar): Do not use wchar_t strings for
    read_w32_registry_string.
    (mkstemp): Use CreateFile instead of open.

* w32-io.c (handle_to_fd, fd_tohandle): Add. We need them for W32.
  * w32-util.c (_WIN32_IE): Define to 0x0400.

* util.h [W32]: Include windows.h.
  * w32-sema.c: Do not include windows.h directly.
  * ath.c (ssize_t, pid_t)[_MSC_VER]: Add new types.
  * gpgme.c (gpgme_result_ref, gpgme_result_unref): Do not use a
    void pointer in pointer arithmetic.
  * w32-util.c: Include util.h prior to ath.h. Don't include
    windows.h directly.
    (F_OK): Define if not defined.
  * w32-ce.c: Include string.h.
    (RegQueryValueExA): Use WINAPI modifier to match the declaration.
  * vfs-create.c: Include string.h because under W32CE with MSC we
    get a warning related to our strerror replacement.
* encrypt-sign.c: Include stdlib.h, string.h and errno.h.
* priv-io.h [W32CE]: Include w32-ce.h
* w32-ce.h: Include winsock2.h and ws2tcpip.h.
(_MSV_VER): Remove useless macro.
(pid_t): Add typedef.

Guard all includes of unistd.h and sys/time.h.

2010-10-28 Marcus Brinkmann <marcus@g10code.com>

* opassuan.c (gpgme_op_assuan_transact_ext): Fix uninitialized value use. Reported by Marc Mutz.

2010-10-07 Werner Koch <wk@g10code.com>

* gpgme-tool.c (ARGP_ERR_UNKNOWN): Use EDEADLK if available.

* w32-util.c (_gpgme_w32ce_get_debug_envvar) [W32CE]: New.
* debug.c (debug_init) [W32CE]: Use new function.

2010-09-16 Werner Koch <wk@g10code.com>

* import.c: Include "util.h".
(parse_import): Return GPG_ERR_MISSING_ISSUER_CERT.

* util.h: Add fallback define for GPG_ERR_MISSING_ISSUER_CERT.
* op-support.c: Include "util.h".
(_gpgme_parse_inv_recip): Handle new code 12.

2010-09-02 Marcus Brinkmann <marcus@g10code.de>

* error.c (gpgme_err_code_to_errno): Fix cut and paste bug (thanks to Marc Mutz).

2010-09-01 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c: Revert change from 2009-06-18, as it created a race condition.

2010-08-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.def: Add gpgme_err_code_from_syserror and gpgme_err_set_errno.
* libgpgme.vers: Likewise.
* gpgme.h.in (gpgme_error_from_errno): Fix return type to gpgme_error_t.
(gpgme_err_code_from_syserror, gpgme_err_set_errno): New prototype.
(gpgme_error_from_syserror): New inline function (why are gpgme_err_make_from_errno and gpgme_error_from_errno not inline
functions?).  
* error.c (gpgme_error_from_errno): Fix return type to gpgme_error_t.  
(gpgme_err_set_errno, gpgme_err_code_from_syserror): New functions.  

2010-08-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (result_encrypt_to_xml, result_sign_to_xml)  
(result_verify_to_xml, result_import_to_xml)  
(result_genkey_to_xml): Check vigorously for null pointers.

* w32-io.c (GPGCEDEV_IOCTL_ASSIGN_RVID): New macro.  
 (_gpgme_io_spawn): Use ASSIGN_RVID.  

2010-06-11 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_spawn): Remove debug printf.

2010-06-10 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (gpgme_server): Use special hack for Windows CE to  
get at stdin and stdout.

* engine-gpgsm.c (gpgsm_new): Translate returned achild_fds back  
to child_fds.

* debug.h (TRACE_SUC6): New macro.  
* w32-io.c (MAX_SLAFD): New macro.  
(fd_table): New static variable.  
(new_fd, release_fd): New functions.  
(fd_to_handle, handle_to_fd, handle_to_socket): Remove macros.  
(MAX_READERS, MAX_WRITERS): Increase to 64.  
(notify_table): Increase to MAX_SLAFD.  
(struct reader_context_s, struct writer_context_s): Add member  
file_sock.  
(reader, writer): Use file_hd vs file_sock to decide if socket  
operations to use. Remove auto-detect mode.  
(create_reader, create_writer) Set file_sock. Unblock pending  
thread only if this is a pipe fd.  
(_gpgme_io_pipe): Allocate fds from table and return slot indices  
instead of windows handles. This allows to properly handle RVIDs.  
(_gpgme_io_close): Handle dup’ed file descriptors.  
(build_commandline) [HAVE_W32_SYSTEM]: Use RVID from fd table now.  
(_gpgme_io_spawn): Use fd table now.  
(_gpgme_io_fd2str): Use RVID from fd table now.  
(_gpgme_io_dup): Implement using fd table.  
(_gpgme_io_socket): Allocate fds from table.  
(_gpgme_io_connect): Use fd from table.
* w32-glib-io.c (find_channel): Check that the slot is used.

2010-06-09 Marcus Brinkmann  <marcus@g10code.de>

* w32-io.c [HAVE_W32CE_SYSTEM]: Include assuan.h and winioctl.h.
  (GPGCEDEV_IOCTL_UNBLOCK) [HAVE_W32CE_SYSTEM]: Define.
  (set_synchronize) [HAVE_W32CE_SYSTEM]: Stub it out.
  (is_socket): Allow to return -1 for auto-detect (old behaviour).
  (is_socket) [HAVE_W32CE_SYSTEM]: Return -1.
  (reader): Handle auto-detect case. Handle ctx->stop_me before checking for EOF.
  (destroy_reader) [HAVE_W32CE_SYSTEM]: Unblock a pending reader.
  (writer): Handle auto-detect case. Handle ctx->stop_me with ERROR_BUSY.
  (destroy_writer) [HAVE_W32CE_SYSTEM]: Unblock a pending writer.
  (_gpgme_io_pipe) [HAVE_W32CE_SYSTEM]: Implement in terms of a half-pipe.
  (build_commandline) [HAVE_W32CE_SYSTEM]: New function.
  (_gpgme_io_spawn) [HAVE_W32CE_SYSTEM]: Implement it differently for this platform.
  (_gpgme_io_fd2str) [HAVE_W32CE_SYSTEM]: Implement it for RVIDs.
  (_gpgme_io_dup) [HAVE_W32CE_SYSTEM]: Stub it out.

* gpgme-tool.c (result_add_timestamp): Add missing NULL argument.
  (result_sign_to_xml): Protect against NULL fingerprint.
  (struct server): New members input_fd, input_filename, input_stream output_fd, output_filename, output_stream, message_filename, message_stream.
  (server_reset_fds): Deallocate those.
  (server_parse_fd): New function.
  (server_data_obj): Take optional filename argument and direction argument. Also take new argument to return a filestream that needs to be closed after destroying the data object.
  Change all callers, too.
  (input_notify, output_notify): Removed.
  (cmd_input, cmd_output): New functions.
  (gpgme_server): Do not register input and output notifier.
  (register_commands): Use cmd_input and cmd_output.
  (cmd_message): Rewritten to use server_parse_fd.
  (cmd_delete, cmd_keylist): Fix inverted option check.
  (main) [HAVE_W32CE_SYSTEM]: Sleep a bit to work around bug in ssh.

* genkey.c (gpgme_op_genkey): Return err with TRACE_ERR.

2010-05-12 Marcus Brinkmann  <marcus@g10code.de>

* conversion.c (_gpgme_timegm) [HAVE_W32SYSTEM]: New static function.
(_gpgme_parse_timestamp) [HAVE_W32_SYSTEM]: Use it.

* gpgme-tool.c (main): Protect call to setlocale with HAVE_SETLOCALE.

* Makefile.am (system_components): Remove custom cppflags from RCCOMPILE (because gpg-error adds -idirafter that makes RC bail.
  [HAVE_W32CE_SYSTEM]: Add w32-ce.h and w32-ce.c, clear libexec_PROGRAMS.
* w32-ce.h, w32-ce.c: New files.

* priv-io.h: Include <sys/types.h>
* util.h: Likewise.

2010-05-11 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c: Include ath.h
(HAVE_ALLOW_SET_FOREGROUND_WINDOW) ![HAVE_W32CE_SYSTEM]: Define it.
(RTLD_LAZY, dlopen, dsym, dlclose) ![HAVE_ALLOW_SET_FOREGROUND_WINDOW]: Don't define anymore.
(_gpgme_allow_set_foreground_window) ![HAVE_ALLOW_SET_FOREGROUND_WINDOW]: Make it a stub.
(read_w32_registry_string): Use FooA variants of Windows functions instead of Foo (which dispatches depending on UNICODE).
![HAVE_W32CE_SYSTEM]: Don't check environment.
(w32_shgetfolderpath): Remove.
(find_program_at_standard_place): Call SHGetSpecialFolderPath (which is available on all Windows systems and also Windows CE).
(mkstemp): Use ath_self instead of getpid.
(_gpgme_mkstemp): Use GetTempPathA instead of GetTempPath.

* gpgme.h.in: Use _WIN32 instead of _MSC_VER. Include time.h for time_t.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* engine-g13.c, gpgme.c, engine-gpgsm.c, engine-gpg.c, op-support.c, engine-assuan.c, gpgme-tool.c: Include <locale.h>
only if available with HAVE_LOCALE_H and conditionize use of LC_CTYPE on its definition.
* engine-gpgconf.c: Do not include <locale.h>.

* engine-gpgsm.c (gpgsm_new, start): Cast between int and assuan_fd_t.
  * assuan-support.c (my_pipe, my_close, my_read, my_write): Likewise.
* gpgme-tool.c (server_data_obj, server_reset_fds, gpgme_server),
(my_recvmsg, my_sendmsg, my_spawn): Likewise.
* engine-assuan.c (start): Likewise.
* engine-g13.c (start): Likewise.

2010-05-06 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c, w32-io.c, w32-qt-io.cpp, w32-sema.c, w32-util.c:
Do not include <signal.h>.

* sign.c, data-user.c, conversion.c, debug.c, verify.c, data.c,
decrypt.c, delete.c, assuan-support.c, import.c, engine-gpgsm.c,
data-mem.c, op-support.c, w32-io.c, w32-util.c, data-compat.c: Use
gpg_error_from_syserror instead gpg_error_from_errno, and use
gpg_err_set_errno to set error number.
* setenv.c: Include <gpg-error.h> and define __set_errno to use
gpg_err_set_errno.
* gpgme-tool.c (ARGP_ERR_UNKNOWN): Define to EDEADLOCK (which is
mapped in Windows CE) instead of E2BIG (which is not).
(gt_import_keys): Initialize err.

2010-04-19 Marcus Brinkmann <marcus@g10code.de>

* assuan-support.c (my_spawn): Cast to avoid warning.
* engine-g13.c (g13_new): Make ARGV array of pointer to const char.
(g13_assuan_simple_command) ![USE_DESCRIPTOR_FUNCTION]: Don't define.
* ops.h (_gpgme_key_append_name): Same in prototype.
* key.c (_gpgme_key_append_name): Make SRC argument pointer to
const char.
* posix-util.c (_gpgme_get_uiserver_socket_path): Make HOMEDIR
const.
* vfs-mount.c (gpgme_op vfs transact_start): Never define this
typically useful but currently unused function.
* vfs-create.c (gpgme_op vfs transact_start): Likewise.

2010-04-16 Werner Koch <wk@g10code.com>

* w32-io.c (is_socket): New.
(reader, writer): Use it to figure out the API to use.

2010-03-15 Werner Koch <wk@g10code.com>

* gpgme.h.in: Add autoconf template to set generated file to
read-only in an emacs buffer.

2010-03-12 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_STATUS_SUCCESS): Use the right file for the
change; see below.

* passwd.c (op_data_t): New.
  (passwd_start): Setup OPD.
  (passwd_status_handler): Return GPG_ERR_NOT_SUPPORTED if needed.
  *(context.h (OPDATA_PASSWD): New.
  * gpgme.h (GPGME_STATUS_SUCCESS): New.

2010-03-09 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (gpgsm_keylist): Try to start the agent.

2010-02-17 Werner Koch <wk@g10code.com>

* posix-io.c (notify_table): Change implementation.
  (notify_table_item_t, notify_table_size, notify_table_lock): New.
  (_gpgme_io_close, _gpgme_io_set_close_notify): Adjust for new
  implementation.

2010-02-16 Werner Koch <wk@g10code.com>

* gpgme-tool.c (spacep, has_option, skip_options): New.
  (cmd_export): Implement option --minimal.

* gpgme.h.in (GPGME_EXPORT_MODE_MINIMAL): New.
* export.c (export_start, export_ext_start): Implement it.
* engine-gpg.c (export_common): Ditto.

2010-01-25 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_connect): Fix return code check to make it work.

* version.c (do_subsystem_inits): Remove superfluous second
  WSAStartup.

2010-01-22 Werner Koch <wk@g10code.com>

* w32-io.c (writer): Try to use send first.
  (reader): Try to use recv first.

2010-01-08 Werner Koch <wk@g10code.com>

* engine-gpg.c (gpg_passwd): New.
  (_gpgme_engine_ops_gpg): Register.
* passwd.c (parse_error): New.
  (passwd_status_handler): Use it.

2010-01-07 Marcus Brinkmann <marcus@g10code.de>
* gpgme-tool.c (result_xml_write_cb_t, struct result_xml_state): New types.
  (MAX_TAGS): New macro.
  (result_init, result_xml_indent, result_xml_tag_start)
  (result_xml_tag_data, result_xml_tag_end, result_add_error)
  (result_add_pubkey_algo, result_add_hash_algo, result_add_keyid)
  (result_add_fpr, result_add_timestamp, result_add_sig_mode)
  (result_add_value, result_add_string, result_encrypt_to_xml)
  (result_decrypt_to_xml, result_sign_to_xml)
  (result_verify_to_xml, result_import_to_xml)
  (result_genkey_to_xml, result_keylist_to_xml)
  (result_vfs_mount_to_xml): New functions.
  (gt_result): Rewritten.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme-tool.c (gt_passwd, cmd_passwd): New.
  (register_commands): Register.

* gpgme.h.in (gpgme_op_passwd_start, gpgme_op_passwd): New.
* libgpgme.vers, gpgme.def: Add new functions.
* passwd.c: New.
  * Makefile.am (main_sources): Add passwd.c
  * engine.c, engine.h (_gpgme_engine_op_passwd): New.
  * engine-backend.h (struct engine_ops): Add PASSWD.
  * engine-gpgsm.c (gpgsm_passwd): New.
    (_gpgme_engine_ops_gpgsm): Register.
    (gpgsm_reset): Reset only if we have a connection.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (PGPME_PK_ECDSA, PGPME_PK_ECDH): New.
* gpgme.c (gpgme_pubkey_algo_name): Add them.

2009-12-15 Marcus Brinkmann <marcus@g10code.de>

* assuan-support.c (my_spawn): Calloc, not malloc, the fd_items.

2009-12-10 Werner Koch <wk@g10code.com>

* debug.c (debug_init): Test on sgid process.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (LTRCCOMPILE): Refactor with ...
(RCCOMPILE): ... this new macro.
(SUFFIXES): Add .lo.
(gpgme_res_ldflag): Removed.
(gpgme_res): Use libtool object file name here.
(libgpgme_la_LDFLAGS): Remove gpgme_res_ldflag usage.
(libgpgme_la_LIBADD): Add gpgme_res.

* ath.c (ath_self) [HAVE_W32_SYSTEM]: Fix typo.

2009-12-02 Werner Koch <wk@g10code.com>

* gpgconf.c (gpgme_conf_arg_release): No return in a function returning void. Reported by Wyllys Ingersoll.

2009-12-01 Werner Koch <wk@g10code.com>

* gpgme-tool.c (cmd_getauditlog): Add flag --html.
(hlp_getauditlog): New.

* gpgme-tool.c (GT_GCC_A_SENTINEL, GT_GCC_A_PRINTF): New.
(gt_write_status): Use sentinel.
(argin_error, log_error): Use printf attribute.
(argp_parse): Remove extra argument to argp_error.
(_gt_progress_cb, gt_get_engine_info, gt_get_keylist_mode)
(gt_result): Add NULL arg.

2009-11-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan.c (opassuan_start): Allocate result structure before beginning operation.

2009-11-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (gpgme_server): Use assuan_fd_t and assuan_fdopen on fds.

2009-11-13 <wk@g10code.com>

* sign.c (_gpgme_sign_status_handler): Handle SIG_CREATED_SEEN.
* engine-uiserver.c (uiserver_sign): Make sending SENDER optional.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_reset): Instead of last change, only set sub protocol if it is not the default.

2009-11-10 Werner Koch <wk@g10code.com>
* op-support.c (_gpgme_op_reset): Ignore GPG_ERR_NOT_IMPLEMENTED while setting the sub protocol.

* engine-uiserver.c (uiserver_new): Pass fdpassing flag to assuan_socket_connect.
  (set_recipients): Replace fingerprint by user id.

* engine-gpgsm.c (set_recipients): Fix non-terminating loop in case of a missing key.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_new): Set default sub protocol.
  * gpgme-tool.c: Implement get sub protocol.

  * gpgme.h.in (gpgme_get_sub_protocol): Add prototype.
  * gpgme.def, libgpgme.vers: Add gpgme_get_sub_protocol.
  * context.h (struct gpgme_context): New member sub_protocol.
  * gpgme.c (gpgme_set_sub_protocol): Set CTX->sub_protocol.
  (gpgme_get_sub_protocol): New function.
  * op-support.c (_gpgme_op_reset): Set sub protocol.

  * Makefile.am (uiserver_components): New variable.
    (main_sources): Add it.
  * ops.h, key.c (_gpgme_key_append_name): Take CONVERT argument, implement it. Adjust callers.
    (gpgme_key_from_uid): New function.
  * gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_DEFAULT.
  (gpgme_encrypt_flags_t): Add GPGME_ENCRYPT_PREPARE, GPGME_ENCRYPT_EXPECT_SIGN.
  (gpgme_set_sub_protocol, gpgme_key_from_uid): New functions.
  * libgpgme.vers, gpgme.def: Add new functions.
  * gpgme.c (gpgme_set_protocol): Add UIServer protocol.
  (gpgme_set_sub_protocol): New function.
  (gpgme_get_protocol_name): Add UIServer and default protocol.
  * assuan-support.c: Return correct error values, implement socketpair for POSIX.
  * engine.h, engine-backend.h (_gpgme_engine_set_protocol)
  * engine.c (engine_ops, gpgme_get_engine_info): Add UIServer engine.
  (_gpgme_engine_set_protocol, _gpgme_engine_op_decrypt_verify): New function.
  * decrypt-verify.c (decrypt_verify_start): Call
_gpgme_engine_op_decrypt_verify.
* util.h, posix-util.c,
 w32-util.c (_gpgme_get_uiserver_socket_path): New function.
* engine-gpgsm.c (gpgsm_set_fd): Fix _gpgme_io_pipe invocation.
* gpgme-tool.c: Some support for UIServer protocol.

2009-11-09 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Close server side FDs.

2009-11-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme-tool.c (struct gpgme_tool): New members write_data and
  write_data_hook.
  (gt_write_data): New function.
  (gt_result): Output vfs_mount result.
  (server_write_data): New function.
  (gpgme_server): Initialize write_data members.

2009-11-05 Marcus Brinkmann <marcus@g10code.de>

* engine-g13.c (struct engine_g13): Remove members RESULT_CB and
  RESULT_CB_VALUE.
  (g13_assuan_simple_command, status_handler): Don't use those anymore.
  (g13_transact): Remove them from argument list, too.
* vfs-mount.c (_gpgme_vfs_mount_status_handler): New function.
  (_gpgme_op_vfs_mount): Pass it to transact.

* engine-assuan.c (llass_new): Update use of assuan_socket_connect.
* engine-gpgsm.c (gpgsm_new): Update use of assuan_pipe_connect.
* engine-g13.c (g13_new): Likewise.

* w32-io.c (_gpgme_io_spawn): Implement this flag.
* posix-io.c (_gpgme_io_spawn): Likewise.
* w32-glib-io.c (_gpgme_io_spawn): Likewise.
* assuan-support.c (my_spawn): Set this flag.

* decrypt.c (gpgme_op_decrypt_start): Fix use of debug macro.
* decrypt-verify.c (gpgme_op_decrypt_verify_start): Likewise.
* delete.c (gpgme_op_delete_start): Likewise.
* edit.c (gpgme_op_edit_start, gpgme_op_card_edit_start):
  Likewise.
* encrypt.c (gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (gpgme_op_encrypt_sign_start): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export_ext_start)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start): Likewise.
* import.c (gpgme_op_import_start, gpgme_op_import_keys_start): Likewise.
* opassuan.c (gpgme_op_assuan_transact_start): Likewise.
* sign.c (gpgme_op_sign_start): Likewise.
* verify.c (gpgme_op_verify_start): Likewise.
* vfs-create.c (gpgme_opvfs_create): Likewise.
* vfs-mount.c (gpgme_opvfs_mount): Likewise.

2009-11-04 Marcus Brinkmann <marcus@g10code.de>

* ath.h (ath_self): New prototype. Include <stdint.h>
* ath.c, ath-PTH.c, ath-pthread.c (ath_self): New function.
* debug.h: Rewrite most macros to beautify debug output.
(_gpgme_debug_buffer): Remove tagnam and tag argument.
(_gpgme_debug_frame_begin, _gpgme_debug_frame_end): New prototypes.
* debug.c: Include <time.h>. Don't include assuan.h.
(frame_nr, FRAME_NR): New thread-specific variable and macro.
(debug_init): Do not initialize assuan. Call _gpgme_debug after
initialization instead using printf directly.
(_gpgme_debug): Do not call debug_init (we now ensure proper
initialization by user). Add timestamp and thread/process ID.
(_gpgme_debug_buffer): Do not take tagnam and tag argument.
(_gpgme_debug_frame_begin, _gpgme_debug_frame_end): New functions.
* version.c (gpgme_check_version_internal, gpgme_check_version):
Fix debug string. Do not initialize assuan.
* posix-io.c (get_max_fds): Use 0 not NULL (nicer debug output).

2009-11-04 Werner Koch <wk@g10code.com>

* gpgme-tool.c (register_commands): Add HELP feature.

2009-11-03 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_PROTOCOL_UISERVER): New.

2009-11-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (main_sources): Change g13.c to vfs-mount.c. Add
vfs-create.c
* vfs-create.c: New file.
* g13.c: Renamed to ...
* vfs-mount.c: ... this new file.
* gpgme.h.in (gpgme_opvfs_create): New prototype.
* gpgme.def, libgpgme.vers: Add gpgme_opvfs_create.
* gpgme-tool.c (gtvfs_create, cmdvfs_create): New functions.
(register_commands): Add VFS_CREATE and CREAET.
* debug.h (_gpgme_debug_buffer): Make TAG argument const const.
* debug.c (_gpgme_debug_buffer): Likewise.
* gpgme-tool.c (input_notify, output_notify): Adjust type to new assuan interface.
* decrypt.c (gpgme_op_decrypt_result): Remove unused variable.
* opassuan.c (gpgme_op_assuan_transact): Fix return value.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

  (gpgme_tool_LDADD): New variable.
* gpgme-tool.c: New file.
* ops.h (_gpgme_sig_notation_clear _gpgme_signers_clear): New prototypes.
* gpgme.c (gpgme_set_protocol): Allow GPGME_PROTOCOL_GPGCONF (when had that gone missing?).
  (_gpgme_sig_notation_clear): New function without debug output.
  (gpgme_release): Call it and _gpgme_signers_clear.
* signers.c (_gpgme_signers_clear): New function without debug output.
* g13.c (gpgme_op_vfs_mount): Add debug output.
* assuan-support.c (my_spawn): Allow fd_child_list to be NULL.
* conversion.c (_gpgme_encode_percent_string): Fix infinite loop.
* debug.h: Put tag in front of debug lines, should make for nicer output.
* engine-assuan.c (lass_new): Use our new system hooks for libassuan.
* engine-g13.c (g13_new): Remove redundant assuan context allocation.
* version.c (gpgme_check_version_internal): Delay debug output until after gpgme_check_version was called.

2009-10-28 Marcus Brinkmann <marcus@g10code.de>

* signers.c, encrypt-sign.c, encrypt.c, delete.c, keylist.c,
  edit.c, import.c, export.c: Fix last change in debug output.

2009-10-27 Marcus Brinkmann <marcus@g10code.de>

* edit.c (gpgme_op_edit_start, gpgme_op_edit)
  (gpgme_op_card_edit_start, gpgme_op_card_edit): Add debug output.
* encrypt-sign.c (gpgme_op_encrypt_sign_start)
  (gpgme_op_encrypt_sign): Likewise.
* encrypt.c (gpgme_op_encrypt_start, gpgme_op_encrypt)
  (gpgme_op_encrypt_result): Likewise.
* export.c (gpgme_op_export_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext)
  (gpgme_op_export_keys_start, gpgme_op_export_keys): Likewise.
* genkey.c (gpgme_op_genkey_start, gpgme_op_genkey)
  (gpgme_op_genkey_result): Likewise.
* getauditlog.c (gpgme_op_getauditlog_start)
  (gpgme_op_getauditlog): Likewise.
* import.c (gpgme_op_import_result, gpgme_op_import_start)
  (gpgme_op_import): Likewise.
* keylist.c (gpgme_op_keylist_result, keylist_colon_handler)
  (gpgme_op_keylist_start, gpgme_op_keylist_ext_start)
  (gpgme_op_keylist_next, gpgme_op_keylist_end, gpgme_get_key): Likewise.
* opassuan.c (gpgme_op_assuan_transact_start)
  (gpgme_op_assuan_transact_ext, gpgme_op_assuan_result)
  (gpgme_op_assuan_transact): Likewise.
* signers.c (gpgme_signers_add, gpgme_signers_clear): Likewise.
* trustlist.c (gpgme_op_trustlist_start)
  (gpgme_op_trustlist_next, gpgme_op_trustlist_end): Likewise.
* verify.c (gpgme_op_verify_start, gpgme_op_verify)
  (gpgme_op_verify_result): Likewise.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (struct gpgme_io_event_done_data)
  (gpgme_ioc_event_done_data_t): New types.
  (struct _gpgme_op_assuan_result): Deprecate the err member.
  (gpgme_op_assuan_result): Deprecate (for now).
  (gpgme_op_assuan_transact_ext): New prototype.
  (gpgme_op_assuan_transact): Deprecate.
  (struct _gpgme_op_g13_result): Replace with ...
  (struct _gpgme_op_vfs_mount_result): ... this.
  (gpgme_op_g13_mount): Replace with ...
  (gpgme_op_vfs_mount): ... this.
* gpgme.def (gpgme_op_assuan_transact_ext, gpgme_wait_ext)
  (gpgme_op_vfs_mount_result, gpgme_op_vfs_mount): New.
  (gpgme_op_g13_mount): Remove.
* libgpgme.vers: Likewise.
* engine-backend.h (struct engine_ops): Remove RESULT_CB and
  RESULT_CB_VALUE args in opassuan_transact member. Add CANCEL_OP
  member.
* ops.h (_gpgme_cancel_with_err, _gpgme_wait_on_condition): Add
  OP_ERR argument.
  (_gpgme_wait_one_ext): New prototype.
* context.h (ctx_op_data_id_t): Add OPDATA_VFS_MOUNT.
* engine-g13.c (g13_cancel_op): New function.
  (parse_status): Remove declaration.
  (g13_assuan_simple_command): Do nothing with status lines for now.
  (status_handler): Update opaque value access.
  (_gpgme_engine_ops_g13): Add new cancel_op member.
* gpgme.c (_gpgme_cancel_with_err): Add new parameter OP_ERR.
  Handle operational errors.
(gpgme_cancel, gpgme_io_read, gpgme_io_write): Add debug output.
* data.c (gpgme_data_inbound_handler)
  (_gpgme_data_inbound_handler): Adjust opaque value access.
* engine-gpg.c (command_handler, status_handler)
  (colon_line_handler): Likewise.
* engine-gpgsm.c (status_handler): Likewise.
* engine-gpg.c (_gpgme_engine_ops_gpg): Add cancel_op member.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Likewise.
* g13.c: Rewritten (and will be rewritten again).
* engine.h (_gpgme_engine_op_assuan_transact): Remove result_cb
  and result_cb_value parameters from prototype.
  (_gpgme_engine_cancel_op): New prototype.
* engine.c (engine_ops) (! ENABLE_ASSUAN]: Add missing comma.
  (_gpgme_engine_op_assuan_transact): Remove result_cb and
  result_cb_value parameter.
  (_gpgme_engine_cancel_op): New function.
* wait.h (_gpgme_run_io_cb): Add new argument OP_ERR.
  (struct io_cb_data): New struct to pass opaque data and get a
  op_err return value. Needed because we can't modify I/O callback
  handler signature because it is exposed to the user.
* wait.c (_gpgme_run_io_cb): Add OP_ERR parameter. Handle
  operational errors.
* wait-user.c (_gpgme_user_io_cb_handler): Handle operational
  errors.
* wait-private.c (_gpgme_wait_on_condition): New argument to
  retrieve the operational result. Handle operational errors in
  session based protocols.
  (_gpgme_wait_one_ext): New function.
  (_gpgme_wait_one): Pass argument in invocation of
    _gpgme_wait_on_condition.
* wait-global.c (struct ctx_list_item): Add member OP_ERR.
  (ctx_done): New argument OP_ERR.
  (ctx_wait): New argument OP_ERR.
  (gpgme_wait_ext): New function based on gpgme_wait but handling
  operational errors.
  (gpgme_wait): Implement in term of gpgme_wait_ext.
* keylist.c (gpgme_op_keylist_next): Pass argument in invocation
  of _gpgme_wait_on_condition.
* trustlist.c (gpgme_op_trustlist_next): Pass argument in
  invocation of _gpgme_wait_on_condition.
* engine-assuan.c (struct engine_llass): Replace members RESULT_CB
  and RESULT_CB_VALUE by LAST_OP_ERR.
  (_gpgme_engine_assuan_last_op_err): Add this hack function.
  (llass_cancel_op): New function.
  (_gpgme_engine_llass_ops): Add cancel_op member.
  (llass_status_handler): Update opaque value access.
  (llass_transact): Remove RESULT_CB and RESULT_CB_VALUE arguments.
* opassuan.c: Move compat hacks to the end of file.
Do not set OPD->result.err.
Do not pass RESULT_Cb and CTX to _gpgme_engine_op_assuan_transact.
(gpgme_op_assuan_transact_ext): New function.

* debug.h (DEBUG_GLOBAL): New debug level.
* conversion.c (gnupg_errors, _gpgme_map_gnupg_error): Removed.
* data-user.c (gpgme_data_new_from_cbs): Add debug output.
* data-fd.c (gpgme_data_new_from_fd): Likewise.
* data-stream.c (gpgme_data_new_from_stream): Likewise.
* decrypt.c (gpgme_op_decrypt_result, gpgme_op_decrypt_start)
(gpgme_op_decrypt): Likewise.
* delete.c (gpgme_op_delete_start, gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify_start)
(gpgme_op_decrypt_verify): Likewise.
* sign.c (gpgme_op_sign_result): Fix debug message.
* data-mem.c (gpgme_data_new): Improve debug output.
* verify.c (parse_trust): Use atoi instead of
_gpgme_map_gnupg_error.
* decrypt.c (_gpgme_decrypt_status_handler): Likewise.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Remove @NETLIBS@ from LIBADDs.
(g13_components): New variable.
(main_sources): Add $(g13_components).
* g13.c, engine-g13.c: New files.
* engine.c (engine_ops): Check for assuan for assuan engine, add
g13 engine.
* util.h (_gpgme_get_g13_path, _gpgme_encode_percent_string): New
prototypes.
* conversion.c (_gpgme_encode_percent_string): New function.
* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_G13.
(struct _gpgme_op_g13_result, gpgme_g13_result_t): New types.
(gpgme_op_g13_mount): New function.
* gpgme.def, libgpgme.vers: Add gpgme_op_g13_mount.
* posix-util.c (_gpgme_get_g13_path): New function.
* w32-util.c (_gpgme_get_g13_path): New function.
* engine-backend.h (_gpgme_engine_ops_g13): New declaration.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (netlibs): Remove.
(assuan_cflags, assuan_libs): Add.

* Makefile.am (assuan_cflags, assuan_libobjs): Removed.
(gpgsm_components): Move engine-assuan.c to ...
(assuan_components): ... this new variable.
(main_sources): Add this new variable.
(AM_CPPFLAGS): Remove $(@assuan_cppflags).
(AM_CFLAGS): Add @LIBASSUAN_CFLAGS@.
(libgpgme_la_DEPENDENCIES, libgpgme_pth_la_DEPENDENCIES)
(libgpgme_glib_la_DEPENDENCIES, libgpgme_qt_la_DEPENDENCIES)
(libgpgmepthread_la_DEPENDENCIES): Remove $(assuan_libobjs).
(libgpgme_la_LIBADD, libgpgme_pth_la_LIBADD)
(libgpgme_glib_la_LIBADD, libgpgme_qt_la_LIBADD))
(libgpgmepthread_la_LIBADD): Replace $(assuan_libobjs) by
@LIBASSUAN_LIBS@.
* priv-io.h [HAVE_W32_SYSTEM]: Declare _gpgme_io_recvmsg,
  _gpgme_io_sendmsg, _gpgme_io_waitpid.
* engine-backend.h: Define with [ENABLE_ASSUAN] instead
  of [ENABLE_GPGSM].
* util.h (ENABLE_ASSUAN): Declare _gpgme_assuan_system_hooks,
  _gpgme_assuan_malloc_hooks, _gpgme_assuan_log_cb.
* engine-gpgsm.c: Don't map assuan error codes. Use
  assuan_release instead of assuan_disconnect.
(map_assuan_error): Remove function.
(gpgsm_new): Use new assuan context interface.
* engine-assuan.c: Use assuan_release instead of
  assuan_disconnect.
(llass_new): Use new assuan context interface.

2009-10-07  <wk@g10code.com>

* priv-io.h [W32]: Include windows.h instead of sys/socket.h.

2009-08-06  Werner Koch  <wk@g10code.com>

* op-support.c (_gpgme_parse_inv_recp): Allow for no fingerprint.

* engine-gpgsm.c (gpgsm_sign): Hook up the status func for the
  SIGNER command.
* gpgme.h.in (PGME_STATUS_INV_SGNR, GPGME_STATUS_NO_SGNR): New.
* sign.c (op_data_t): Add fields IGNORE_INV_RECP and INV_SGNR_SEEN.
  (_gpgme_op_sign_init_result): Factor code out to ...
  (sign_init_result): .. new. Init new fields.
  (sign_start): Use sign_init_result.
  (_gpgme_sign_status_handler): Take care of the new INV_SGNR.
  Return an error if no signature has been created.

2009-07-07  Werner Koch  <wk@g10code.com>

* engine-gpgsm.c (struct engine_gpgsm): Add fields
  input_helper_data and input_helper_memory.
(close_notify_handler): Release these new fields.
(gpgsm_import): Implement the keyarray feature.

* engine-gpg.c (gpg_import): Actually return GPG_ERR_INV_VALUE.

* engine-gpgsm.c (gpgsm_import): Return an error for unknown data encodings.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* debug.h: Everywhere, use %p instead of 0x%x to print pointer.
[HAVE_STDINT_H]: Include <stdint.h>.
(_TRACE, TRACE, TRACE0, TRACE1, TRACE2, TRACE3, TRACE6): Cast tag to (uintptr_t) before casting it to (void*) to silence GCC warning.

* gpgme.h.in (_GPGME_DEPRECATED_OUTSIDE_GPGME): New macro.
* sign.c (_GPGME_IN_GPGME): Define it.
* keylist.c (_GPGME_IN_GPGME): Define it.

* debug.c (_gpgme_debug_begin, _gpgme_debug_add): Handle error in vasprintf and asprintf.

* priv-io.h: Include <sys/socket.h>. Declare _gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (GPGME_CONF_PATHNAME): Revert last change, it's back! (GPA still uses it...).

* gpgme.def: Fix stupid typo.
* w32-io.c (_gpgme_io_pipe): Add missing declaration.

* gpgme.h.in (GPGME_CONF_PATHNAME): Remove obsolete macro.

* w32-io.c (_gpgme_io_pipe): Allocate reader/writer thread right away.
(_gpgme_io_read, _gpgme_io_write, _gpgme_io_select)
(_gpgme_io_dup): Never allocate threads here.
(find_writer, find_reader): Check return value of thread creation function.

* context.h (CTX_OP_DATA_MAGIC): New macro.
(struct ctx_op_data): New member MAGIC.
* op-support.c (_gpgme_op_data_lookup): Initialize magic.
* gpgme.c (gpgme_result_unref, gpgme_result_ref): Check magic.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>
* gpgme.c (gpgme_result_unref): Hot fix to release a lock.

* gpgme.c (result_ref_lock): New global variable.
  (gpgme_result_ref, gpgme_result_unref): use it.

2009-06-16 Werner Koch  <wk@g10code.com>

* version.c: Include stdlib.h.

* gpgme.h.in (gpgme_data_encoding_t): Add GPGME_DATA_ENCODING_URL,
  GPGME_DATA_ENCODING_URLESC, GPGME_DATA_ENCODING_URL0.
* data.c (gpgme_data_set_encoding): Adjust for new values.
* engine-gpg.c (string_from_data): New.
  (gpg_import): Implement --fetch-key feature.

* gpgme.h.in (gpgme_op_export_keys_start, gpgme_op_export_keys): New.
* gpgme.def, libgpgme.vers: Add them.
* export.c (gpgme_op_export_keys_start, gpgme_op_export_keys): New.
  (export_keys_start): New.

* gpgme.h.in (gpgme_export_mode_t, GPGME_EXPORT_MODE_EXTERN): New.
  (gpgme_op_export, gpgme_op_export_start, gpgme_op_export_ext_start)
  (gpgme_op_export_ext): Change arg RESERVED to MODE of new
  compatible type.
* export.c (gpgme_op_export_ext_start, gpgme_op_export)
  (gpgme_op_export_ext_start, gpgme_op_export_ext): Ditto.
  (export_start): Ditto.
* engine.c (_gpgme_engine_op_export): Ditto.
* engine-backend.h (struct engine_ops): Ditto.
* engine-gpgsm.c (gpgsm_export, gpgsm_export_ext): Ditto.
* engine-gpg.c (gpg_export, gpg_export_ext): Ditto. Implement
  mode EXTERN.
  (gpg_export, gpg_export_ext): Factor common code out to ..
  (export_common): .. this.

* gpgme.h.in (gpgme_op_import_keys_start, gpgme_op_import_keys): New.
* gpgme.def, libgpgme.vers: Add them.
* import.c (gpgme_op_import_keys_start, gpgme_op_import_keys): New.
  (_gpgme_op_import_keys_start): New.
* engine.c (_gpgme_engine_op_import): Add arg KEYARRAY.
* engine-backend.h (struct engine_ops): Ditto.
* engine-gpg.c (gpg_import): Ditto. Implement it.

2009-06-15 Marcus Brinkmann  <marcus@g10code.de>

* gpgme.h.in (gpgme_result_ref, gpgme_result_unref): Add
prototypes.

* gpgme.def, libgpgme.vers (gpgme_result_ref, gpgme_result_unref): Add these.
* context.h (struct ctx_op_data): Add member "references".
* gpgme.c (gpgme_result_ref, gpgme_result_unref): New functions.
  (_gpgme_release_result): Use gpgme_result_unref.
* op-support.c (_gpgme_op_data_lookup): Initialize references.

2009-06-12 Werner Koch <wk@g10code.com>

* gpgme-w32spawn.c (translate_get_from_file): Parse optional spawn flags. Add new arg R_FLAGS. Fix segv on file w/o LF.
  (translate_handles): Add new arg R_FLAGS. Avoid possible segv.
  (main): Pass flags for my_spawn.
  (my_spawn): Add arg FLAGS and implement AllowSetForegroundWindow.

* w32-io.c (_gpgme_io_spawn): Add arg FLAGS and implement it.
* w32-glib-io.c (_gpgme_io_spawn): Ditto.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.
* posix-io.c (_gpgme_io_spawn): Add dummy arg FLAGS.
* engine-gpg.c (start): Call spawn with new flag.

2009-06-10 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_allow_set_foreground_window): Rename to _gpgme_allow_set_foreground_window. Change all callers.
* posix-util.c (_gpgme_allow_set_foreground_window): Ditto.

2009-06-09 Werner Koch <wk@g10code.com>

* engine-gpg.c (gpg_io_event): Test for cmd.fd.

* version.c (gpgme_check_version_internal): Make result const.

* gpgme.c: Include priv-io.h.
* libgpgme.vers (GPGME_1.1): Add them.
* gpgme.def: Ditto.

* Makefile.am (main_sources): Remove gpgme.h.
  (include_HEADERS): Rename to nodist_include_HEADERS so that a VPATH build won't use the distributed one.

* util.h (GPG_ERR_NOT_OPERATIONAL): Define.
2009-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_check_version_internal): New prototype.
  (gpgme_check_version): New macro, overriding function of the same
  name.
* libgpgme.vers, gpgme.def: Add gpgme_check_version_internal.o
* context.h (_gpgme_selftest): New variable declaration.
* version.c: Include "context.h".
  (gpgme_check_version): Set _gpgme_selftest on success.
  (gpgme_check_version_internal): New function.
* gpgme.c (_gpgme_selftest): Define it.
  (gpgme_new): Check the selftest result.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in (gpgme_encrypt_flags_t): Add
  GPGME_ENCRYPT_NO_ENCRYPT_TO.
* engine-gpg.c (gpg_encrypt): Pass --no-encrypt-to to gpg if
  GPGME_ENCRYPT_NO_ENCRYPT_TO flag is set.

2009-05-14 Werner Koch <wk@g10code.com>

* gpgme.h.in (gpgme_status_code_t): Explicitly initialize for
  better maintainability and to help debugging.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h.in: Add compile time check for __FILE_OFFSET_BITS.

2009-04-15 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_connect): Fix stupid error.

2009-04-08 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (giochannel_table): New members used, fd, socket.
  (find_channel): Drop CREATE argument.
  (new_dummy_channel_from_fd, new_channel_from_fd)
  (new_channel_from_socket): New functions.
  (_gpgm_io_fd2str): Implement for sockets.
  (_gpgme_io_write, _gpgme_io_read): Translate EAGAIN errors
  correctly.
  (_gpgme_io_pipe): Fix for new channel bookkeeping.
  (_gpgme_io_close, _gpgme_io_dup): Likewise.
* w32-io.c (MAX_READERS, MAX_WRITERS): Bump up to 40.
* version.c [HAVE_W32_SYSTEM]: Include "windows.h.
  (do_subsystem_inits) [HAVE_W32_SYSTEM]: Call WSAStartup.
* engine-assuan.c (lass_status_handler): Ignore EAGAIN errors.

2009-03-18 Werner Koch <wk@g10code.com>

* gpgme.h.in (GPGME_KEYLIST_MODE_EPHEMERAL): New.
  * engine-gpgsm.c (gpgsm_keylist): Send new option.

2009-03-13 Werner Koch <wk@g10code.com>

* gpgme-config.in: Make sure locale is set to C.

2009-02-24 Werner Koch <wk@g10code.com>

* gpgme.h.in (struct _gpgme_op_assuan_result): New.
  (gpgme_assuan_result_t): New.
  (gpgme_op_assuan_result): Change return type.
  (struct _gpgme_assuan_sendfnc_ctx)
  (gpgme_assuan_sendfnc_ctx_t, gpgme_assuan_sendfnc_t): Remove.
  (gpgme_assuan_inquire_cb_t): Changed.
* opassuan.c (op_data_t): Make use of a result structure.
  (gpgme_op_assuan_result): Change return type.
  (opassuan_start): Use result structure.
  (result_cb): Ditto.
* engine-assuan.c (struct _gpgme_assuan_sendfnc_ctx): Remove.
  (inquire_cb_sendfnc): Remove.
  (lass_status_handler): Allow sending a CANCEL from the inquire CB.

2009-02-04 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_spawn): Make ARGV argument const to match prototype.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.

2009-02-03 Werner Koch <wk@g10code.com>

* gpgme.h.in (struct _gpgme_subkey): Add fields IS_CARDKEY and CARD_NUMBER.
  * key.c (gpgme_key_unref): Release field CARD_NUMBER.
  * keylist.c (keylist_colon_handler): Factor common code out to ...
    (parse_sec_field15): New. Set card number.

2009-01-26 Werner Koch <wk@g10code.com>

* opassuan.c, dirinfo.c, engine-assuan.c: New.
* Makefile.am: Add them.
* engine-backend.h: Add _gpgme_engine_ops_assuan.
(struct engine_ops): Add field OPASSUAN_TRANSACT. Update all engine initializers.
* Makefile.am (gpgsm_components): Add engine-assuan.c.
* gpgme.h.in (gpgme_protocol_t): Add GPGME_PROTOCOL_ASSUAN.
(gpgme_assuan_data_cb_t, gpgme_assuan_sendfunc_ctx_t)
(gpgme_assuan_inquire_cb_t, gpgme_assuan_status_cb_t): New.
(gpgme_op_assuan_transact_start, gpgme_op_assuan_transact): New.
* gpgme.c (gpgme_get_protocol_name): Ditto.
(gpgme_set_protocol): Support it.
* engine.c (gpgme_get_engine_info): Ditto.
(engine_ops): Register it.
(_gpgme_engine_op_assuan_transact): New.
* libgpgme.vers (gpgme_op_assuan_transact_start)
(gpgme_op_assuan_transact): New.
* gpgme.def (gpgme_op_assuan_transact_start)
(gpgme_op_assuan_transact): New.
* engine-backend.h (struct engine_ops): Add GET_HOME_DIR and initialize to NULL for all engines.
* engine.c (engine_get_home_dir): New.
(_gpgme_set_engine_info): Use it.
* engine.h (engine_assuan_result_cb_t): New.
* context.h (ctx_op_data_id_t): Add OPDATA_ASSUAN.

* util.h (GPG_ERR_UNFINISHED): Define if not yet defined.

* version.c (gpgme_check_version): Protect trace arg against NULL.

2009-01-19 Werner Koch <wk@g10code.com>

* rungpg.c: Rename to engine-gpg.c
* Makefile.am (main_sources): Ditto.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (status-table.h): Use $(builddir) to find gpgme.h.

2008-11-18 Werner Koch <wk@g10code.com>


* decrypt.c (_gpgme_decrypt_status_handler): Use
  _gpgme_map_gnupg_error to parse the error code for decrypt.algorithm.

2008-10-30 Marcus Brinkmann <marcus@g10code.de>
* wait-private.c (gpgme_wait_on_condition): Remove unused variable IDX.
* wait-global.c: Include ops.h to silence gcc warning.
  (gpgme_wait_global_event_cb): Pass error value directly.
* wait-user.c: Include ops.h to silence gcc warning.

* posix-io.c (gpgme_io_spawn): Make ARGV argument const to silence gcc warning. Cast argument to execv to silence warning.
* w32-io.c (gpgme_io_spawn): Likewise.
* priv-io.h (gpgme_io_spawn): Likewise for prototype.

2008-10-24 Werner Koch <wk@g10code.com>

* rungpg.c (gpg_keylist_preprocess): Escape backslashes too.

2008-10-23 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_keylist_preprocess): Convert percent escaped string to C coded string.

2008-10-20 Werner Koch <wk@g10code.com>

* Makefile.am (EXTRA_DIST): Add gpgme.h.in.

* gpgme.h: Rename to gpgme.h.in.
* gpgme.h.in (GPGME_VERSION): Use autoconf substitution.

* posix-io.c: Include sys/uio.h. Fixes bug #818.

2008-10-18 Marcus Brinkmann <marcus@g10code.com>

* w32-util.c (find_program_in_registry): Don't define.
  (gpgme_get_gpg_path, gpgme_get_gpgsm_path)
  (gpgme_get_gpgconf_path): Do not check for fooProgram in the registry anymore. It is now no longer possible to overwrite the default location in that way.

2008-10-17 Werner Koch <wk@g10code.com>

* w32-glib-io.c (gpgme_io_fd2str): Use "%d" and not "%ld" to work around a bug in mingw32.

2008-09-23 Marcus Brinkmann <marcus@g10code.com>

* gpgme.c (gpgme_sig_notation_clear): Clear CTX->signotations.
Submitted by "Daniel Mueller" <daniel@danm.de>
2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (gpg_new): Don't use errno with ttyname_r.

2008-08-11 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (gpg_cancel): Remove cmd fd before status fd.
* gpgme.c (_gpgme_cancel_with_err): New function.
  (gpgme_cancel): Reimplement in terms of _gpgme_cancel_with_err.
* wait-private.c (_gpgme_wait_on_condition): Use
  _gpgme_cancel_with_err.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.
* wait-global.c (_gpgme_wait_global_event_cb, gpgme_wait): Likewise.

2008-08-08 Marcus Brinkmann <marcus@g10code.com>

* rungpg.c (command_handler): Remove I/O callback on error, too.

2008-06-29 Marcus Brinkmann <marcus@g10code.com>

* gpgme.c (gpgme_cancel_async): Remove unused variable.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: Add gpgme_cancel_async.
* gpgme.def: Likewise.

* context.h: Include "sema.h".
  (struct gpgme_context): New members lock and canceled.
* gpgme.c (gpgme_new): Initialize lock.
  (gpgme_release): Destroy lock.
  (gpgme_cancel_async): New function.
* op-support.c (_gpgme_op_reset): Reset the canceled flag.
* wait-global.c (gpgme_wait): Check cancel flag before processing
  any I/O callbacks.
* wait-private.c (_gpgme_wait_on_condition): Likewise.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.

2008-06-26 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_mkstemp): Replace sprint by stpcpy.
  (mkstemp): Need to use GetSystemTimeAsFileTime for better
  compatibility.

2008-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme-w32spawn.c: New file.
* Makefile.am (libexec_PROGRAMS) [HAVE_W32_SYSTEM]: New variable
with gpgme-w32spawn.
* engine-gpgsm.c (gpgsm_new): Use server translated handles.
(gpgsm_set_locale): Return early if locale value is NULL.
* util.h (_gpgme_mkstemp)
(_gpgme_get_w32spawn_path) [HAVE_W32_SYSTEM]: New function prototypes.
* w32-util.c: Include <stdint.h>, <sys/stat.h> and <unistd.h>.
(letters, mkstemp, _gpgme_mkstemp, _gpgme_get_w32spawn_path): New functions.
* rungpg.c (gpg_decrypt, gpg_encrypt, gpg_encrypt_sign)
(gpg_genkey, gpg_import, gpg_verify, gpg_sign): Pass data over special filename FD rather than stdin.
(struct arg_and_data_s): Add member ARG_LOCP.
(struct fd_data_map_s): Add member ARG_LOC.
(struct engine_gpg): Add member ARG_LOC to status and colon.
(_add_arg, add_arg_with_locp): New function.
(add_arg_ext): Reimplement in terms of _add_arg.
(gpg_new): Remember argument location for status FD.
(build_argv): Set argument location if requested. Also set argument location of fd_data_map for data items.
(start): Adjust caller of _gpgme_io_spawn.
* priv-io.h (struct spawn_fd_item_s): Add members peer_name and arg_loc.
(_gpgme_io_spawn): Remove parent fd list argument.
* posix-io.c (get_max_fds): New function.
(_gpgme_io_dup): Add tracing.
(_gpgme_io_spawn): Remove parent fd list. Change meaning of child fd list to contain all child fds that should be inherited. Close all other file descriptors after fork.
* w32-io.c, w32-glib-io.c, w32-qt-io.c(_gpgme_io_spawn): Remove parent fd list. Change meaning of child fd list to contain all child fds that should be inherited. Do not inherit any file descriptors, but DuplicateHandle them. Spawn process through wrapper process. Provide wrapper process with a temporary file containing handle translation data. Return translated handle names.
* w32-io.c (reader): Add more tracing output.
(_gpgme_io_read): Likewise.
* engine-gpgconf.c (gpgconf_read): Adjust caller of _gpgme_io_spawn.
* version.c (_gpgme_get_program_version): Likewise.

2008-06-20 Werner Koch <wk@g10code.com>

2008-06-19 Werner Koch <wk@g10code.com>

* gpgme.h (GPGME_CONF_PATHNAME): Replace by GPGME_CONF_FILENAME,
  change all callers and provide compatibility macro.
  (gpgme_conf_type_t): Add complex types 34..37.
  * engine-gpgconf.c (gpgconf_parse_option, arg_to_data)

2008-06-19 Marcus Brinkmann <marcus@g10code.de>

  * engine-gpgconf.c (gpgconf_parse_option): Fix comma detection.

2008-05-09 Werner Koch <wk@g10code.com>

  * engine-gpgconf.c (gpgconf_read): Do not pass empty lines to the
    callback.

2008-05-07 Werner Koch <wk@g10code.com>

  * engine-gpgconf.c (gpgconf_write): Change argv[0] to a

  * rungpg.c (gpg_keylist, gpg_keylist_ext): Factor common code out
    to..
  (gpg_build_keylist_options): .. new. Allow combination of extern
    and intern mode.
  (gpg_new): DFT_TTYNAME is an array, thus check the first character.

2008-05-06 Werner Koch <wk@g10code.com>

  * version.c (extract_version_string): New.
  (_gpgme_get_program_version): Use it to allow for suffixes in the
    version line.

2008-04-28 Werner Koch <wk@g10code.com>

  * engine-gpgconf.c (gpgconf_read): Fixed segv. Avoid memmove for
    each line.

2008-04-22 Marcus Brinkmann <marcus@g10code.de>

  * w32-qt-io.cpp, kdpipeiodevice.cpp: New versions from Frank
    Osterfeld, implement blocking select.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

  * data.c (gpgme_data_read, gpgme_data_write): Retry on EINTR.
2008-03-06 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_add_sig): Terminate UID in case SRC is NULL. Reported by Marc Mutz.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c (release_op_data): Release OPD->result.recipients.
* encrypt.c (release_op_data): Release invalid_recipient.

2008-02-15 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_read): Fix end-of-line handline.

2008-02-14 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_spawn): Add arg R_PID to return the pid.
* posix-io.c (_gpgme_io_spawn): Ditto.
* w32-glib-io.c (_gpgme_io_spawn): Ditto.
* w32-qt-io.cpp (_gpgme_io_spawn): Ditto.
* priv-io.h (_gpgme_io_spawn): Adjust prototyp and change all callers.
* rungpg.c (start): Call _gpgme_allow_set_foregound_window.

* w32-util.c (_gpgme_allow_set_foregound_window): New.
* engine-gpgsm.c (default_inq_cb): New.
  (gpgsm_new) [W32]: Enable pinentry notifications.
  (status_handler): Handle inquiries.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version by Frank Osterfeld, fixes race condition.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_input_enc): Rename to ...
  (map_data_enc): ... this. Also change all callers.
  (gpgsm_encrypt, gpgsm_export, gpgsm_export_ext, gpgsm_genkey)
  (gpgsm_sign): Set encoding for output.

2008-01-28 Werner Koch <wk@g10code.com>

* keylist.c (gpgme_get_key): Skip duplicated keys. Fixes bug 876.

2008-01-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgconf.c (gpgconf_config_load_cb): Fix program_name
field.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

* engine-gpgconf.c (gpgconf_config_load_cb2): Handle the flag
NO_ARG_DESC.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgconf_components): New variable.
(main_sources): Add gpgconf.c.
* gpgme.h (gpgme_protocol_t): New protocol GPGME_PROTOCOL_GPGCONF.
(gpgme_conf_level_t, gpgme_conf_type_t, gpgme_conf_arg_t)
(gpgme_conf_opt_t, gpgme_conf_comp_t, gpgme_conf_arg_new)
(gpgme_conf_arg_release, gpgme_conf_opt_change)
(gpgme_conf_release, gpgme_op_conf_load, gpgme_op_conf_save): New
types.
* gpgconf.c, engine-gpgconf.c: New files.
* engine.h: (_gpgme_engine_op_conf_load,
* op-support.c (_gpgme_op_reset): Ignore not implemented locale
function.
* posix-util.c (_gpgme_get_gpgconf_path): New function.
* w32-util.c (_gpgme_get_gpgconf_path): New function.
* engine-gpgsm.c:
(_gpgme_engine_ops_gpgsm): Add stubs for conf_load and conf_save.
* rungpg.c:
(_gpgme_engine_ops_gpg): Add stubs for conf_load and conf_save.
* gpgme.def: Add new gpgconf related interfaces.
* libgpgme.vers: Likewise.
* util.h (_gpgme_get_gpgconf_path): New prototype.
* gpgme.h (gpgme_protocol_t): Add GPGME_PROTOCOL_GPGCONF.
* engine-backend.h (_gpgme_engine_ops_gpgconf): New prototype.
(struct engine_ops): Add members for conf_load and conf_save.
* engine.c (engine_ops): Add _gpgme_engine_ops_gpgconf.
(_gpgme_engine_op_conf_load,
(_gpgme_engine_op_conf_save): New functions.
(gpgme_get_engine_info): Allow protocol GPGME_PROTOCOL_GPGCONF.

2007-11-28 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): Search
for installation directory. Remove old fallback default.
(find_program_in_inst_dir): New function.

2007-11-26 Werner Koch <wk@g10code.com>
* engine-gpgsm.c (struct engine_gpgsm): Add field INLINE_DATA and always reset it before calling start.
    (gpgsm_new): Clear it.
    (status_handler): Implement it.
    (gpgsm_getauditlog) [USE_DESCRIPTOR_PASSING]: Use INLINE_DATA.

2007-11-23 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_op_reset): Implement a no-reset flag.
* getauditlog.c (getauditlog_start): Use that flag.

2007-11-20 Werner Koch <wk@g10code.com>

* op-support.c (_gpgme_parse_inv_recp): Add new reason code 11.

2007-11-22 Werner Koch <wk@g10code.com>

* gpgme.h (gpgme_op_getauditlog_start, gpgme_op_getauditlog): New.
* libgpgme.vers: Ditto.
* gpgme.def: Ditto.
* getauditlog.c: New.
* engine-backend.h (struct engine_ops): Add member GETAUDITLOG.
* engine-gpgsm.c (gpgsm_getauditlog): New.
(._gpgme_engine_ops_gpgsm): Insert new function.
(gpgsm_new): Try to enable audit log support.
* rungpg.c (_gpgme_engine_ops_gpg): Insert dummy entry.

2007-11-12 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

2007-10-11 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld.

2007-10-09 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp: New version from Frank Osterfeld and Marc Mutz.

2007-10-05 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp, w32-qt-io.cpp: New versions from Frank Osterfeld.
* kdpipeiodevice.h, kdpipeiodevice.cpp, kdpipeiodevice.moc,
  w32.qt-io.cpp: New versions from Frank Osterfeld.

2007-10-02 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.cpp, kdpipeiodevice.moc: New versions.
* w32.qt-io.cpp (_gpgme_io_fd2str): Print actual_fd if available.
  (_gpgme_io_dup): Only acquire a reference, do not actually dup.
Submitted by Frank Osterfeld.

* priv-iodevice, engine-gpgsm.c: Add comments.
* w32.qt-io.cpp (_gpgme_io_select): Remove code handling frozen FDs.
* w32-glib-socket.c (_gpgme_io_close): Always dereference the channel,
even if not primary.
  (_gpgme_io_dup): Acquire a reference. Replace unused
  implementation by assertion.

2007-09-28 Werner Koch <wk@g10code.com>

* engine-gpgsm.c (iob pData_t): Add SERVER_FD_STR.
  (gpgsm_new): Set it.
  (gpgsm_set_fd): Use it.

* w32-glib-socket (find_channel): Add a new primary flag.
  (_gpgme_io_close): Close channel only if primary.
  (_gpgme_io_dup): Put new fd into the table as shallow copy.

* priv-iodevice (struct ioSelect_fd_s): Remove member FROZEN.
* w32-socket.c (_gpgme_io_select): Ditto.
* w32-glib-socket (_gpgme_io_select): Ditto.

* posix-socket (_gpgme_io_select): Ditto.
* rungpg.c (read_status): Ditto.
* wait.c (fdTable_put): Ditto.

* rungpg.c (gpg_io_event): Add tracing.
  (start): Use gpg_io_event for sending the start event.
* engine-gpgsm.c (gpgsm_io_event): Add tracing.
  (start): Use gpgsm_io_event for sending the start event.
* wait.c (_gpgme_add_io_ch, _gpgme_run_io_ch): Add tracing.

2007-09-28 Marcus Brinkmann <marcus@g10code.de>

* kdpipeiodevice.moc, w32-socket.cpp, kdpipeiodevice.cpp: New
  versions from Frank Osterfeld.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>
* w32-glib-io.c (_gpgme_io_spawn), w32-qt-io.cpp (_gpgme_io_spawn), w32-qt-io.cpp (_gpgme_io_spawn): Close the process handle, return 0.

* gpgme.h (gpgme_protocol_t): Add GPGME_PROTOCOL_UNKNOWN.
* gpgme.c (gpgme_get_protocol_name): Implement support for GPGME_PROTOCOL_UNKNOWN.

* kdpipeiodevice.h: Fix last change.


2007-09-25 Marcus Brinkmann <marcus@g10code.de>

* conversion.c, keylist.c: Include <sys/types.h>.

* kdpipeiodevice.h: Use namespace _gpgme_
* kdpipeiodevice.cpp: Use namespace _gpgme_

[Q_OS_WIN32 &amp;&amp; NOMINMAX]: Do not define NOMINMAX again.
* w32-qt-io.cpp: Change namespace of KDPipeIODevice to _gpgme_::KDPipeIODevice.

2007-09-17 Werner Koch <wk@g10code.com>

* rungpg.c (gpg_new): Make robust against undefined ttyname or ttytype.

2007-09-14 Werner Koch <wk@g10code.com>

* data-mem.c (gpgme_data_release_and_get_mem): Fix tracing bug.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_release): Call gpgme_sig_notation_clear.

2007-09-13 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_new): Handle return value of _gpgme_getenv (fixes small memory leak).

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_qt_la_SOURCES): Move moc_kdpipeiodevice.cpp to EXTRA_DIST, as this is only included by another file (it's more like a header file than a cpp file, but automake doesn't know that).
* w32-qt-io.cpp (_gpgme_io_spawn): Fix several cast errors and typos.
* w32-io.c (_gpgme_io_write): Use TRACE_SYSRES instead of TRACE_SYS.
   (libgpgme_qt_la_LIBADD): Add QT4_CORE_LIBS, not QT4_CORE_LIB.

* kdpipeiodevice.h, kdpipeiodevice.cpp, moc_kdpipeiodevice.cpp,
  kdpipeiodevice.moc, w32-qt-io.c: New files.
* Makefile.am (ltlib_gpgme_extra): Rename to ltlib_gpgme_glib.
  (ltlib_gpgme_qt): New variable.
  (lib_LTLIBRARIES): Add $($(libgpgme_qt))
  (libgpgme_qt_la_SOURCES): New variable.
  (AM_CPPFLAGS): Add @QT4_CORE_INCLUDES@.
  (AM_CFLAGS): Add @QT4_CORE_CFLAGS@.
  (libgpgme_qt_la_LDFLAGS, libgpgme_qt_la_DEPENDENCIES)
  (libgpgme_qt_la_LIBADD): New variables.

* sema.h (struct critsect_s): Rename "private" to "priv" to make
  C++ users happy. Change users.
* posix-sema.c (_gpgme_sema_cs_enter, _gpgme_sema_cs_leave)
  (_gpgme_sema_cs_destroy): Likewise.
* w32-sema.c (critsect_init, _gpgme_sema_cs_enter)
* w32-glib-io.c (gpgme_get_giochannel): Change return type to
  void*.
  (gpgme_get_fdptr): New function.
* w32-io.c (gpgme_get_fdptr): New function
* gpgme.def: Add gpgme_get_fdptr.

2007-08-22 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_write): Return early if COUNT is zero.
  (writer): Remove superfluous check.

2007-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Move include of gpg-error.h out of extern "C".

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.h (struct _gpgme_signature): Add member CHAIN_MODEL.
* verify.c (parse_trust): Set Chain_MODEL.

2007-08-02 Werner Koch <wk@g10code.com>

* w32-glib-io.c (_gpgme_io_spawn): Use DETACHED_PROCESS flag.
* w32-io.c (_gpgme_io_spawn): Ditto.
(_gpgme_io_write): Map ERROR_NO_DATA to EPIPE.
* debug.c (_gpgme_debug): Enable assuan logging.
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(_gpgme_debug_subsystem_init): New.
* version.c (do_subsystem_inits): Disable assuan logging and initialize the debug system.
(gpgme_check_version): Do not trace before the subsystems are initialized.

2007-07-17 Marcus Brinkmann <marcus@g10code.de>

* debug.c: Include <errno.h> and "debug.h".
(_gpgme_debug): Save and restore ERRNO.
(TOHEX): New macro.
(_gpgme_debug_buffer): New function.
* conversion.c, data-compat.c, data-mem.c, data.c, engine-gpgsm.c,
gpgme.c, keylist.c, posicio.c, rungpg.c, sign.c, version.c,
w32-io.c, wait.c: Replace DEBUG macros by TRACE_* variants. In most of these files, add many more tracepoints.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (status_handler): Do not sendbye here.

* w32-io.c (struct reader_context_s, struct writer_context_s): New members REFCOUNT.
(create_reader, create_writer): Initialize C->refcount to 1.
(destroy_reader, destroy_writer): Only destroy if C->refcount drops to 0.
(find_reader, find_writer, kill_reader, kill_writer): Beautify.
* posicio.c (_gpgme_io_dup): New function.
* w32-io.c (_gpgme_io_dup): Likewise.
* w32-glib-io.c (_gpgme_io_dup): Likewise.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* data-user.c (user_read, user_write, user_seek): Set errno and return -1 instead returning the error code directly.
* data-compat.c (old_user_seek): Likewise.
* gpgme.c (gpgme_sig_notation_add): Return error properly.

* Revert the "close_notify_handler" returns int stuff. Always close in the _gpgme_io_close implementations.
* engine-gpgsm.c (status_handler): Try to terminate the connection in case of error.
* w32-io.c (_gpgme_io_read): Return C->error_code in ERRNO.
(_gpgme_io_write): Likewise.

* priv-io.h (_gpgme_io_set_close_notify): Change type of HANDLER
to _gpgme_close_notify_handler.
(_gpgme_close_notify_handler): New type.
(_gpgme_io_dup): Remove prototype.
* posix-io.c (notify_table, _gpgme_io_set_close_notify): Change
type of HANDLER to _gpgme_close_notify_handler_t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
(_gpgme_io_dup): Remove function.
* w32-io.c (notify_table, _gpgme_io_set_close_notify,
_gpgme_io_close): Change type of HANDLER to
_gpgme_close_notify_handler_t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
(_gpgme_io_dup): Remove function.
* w32-glib-io.c (_gpgme_io_dup): Remove function.
(_gpgme_io_set_close_notify, notify_table): Change type of HANDLER
to _gpgme_close_notify_handler_t.
(_gpgme_io_close): Do not close the FD if handler returns 0.
* rungpg.c (close_notify_handler): Change return type to int,
return 1.
* engine-gpgsm.c (close_notify_handler): Change return type to int,
return 0 for status FD and 1 for all other FDs.
(start): Do not duplicate the status FD.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Replace implicit rule by suffix rule. Add
SUFFIXES for that.

2007-07-12 Werner Koch <wk@g10code.com>

* version.c (do_subsystem_inits) [W32]: Make sure that the socket
system has been started.

2007-07-10 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_dup): Likewise.
* w32-glib-io.c (_gpgme_io_dup): Likewise.
* engine-gpgsm.c (start): Use _gpgme_dup() instead of dup().

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c [HAVE_W32_SYSTEM]: Enable the bunch of the file.
* funopen.c (funopen): Rename to _gpgme_funopen.

2007-04-30 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Fix error handling for ttname_r.
* rungpg.c (gpg_new): Likewise.
Submitted by Stephen Tether.

2007-02-26 Werner Koch <wk@g10code.com>

* verify.c (op_data_t): New element PLAINTEXT_SEEN.
   (_gpgme_verify_status_handler): Return an error if more than one
   plaintext has been seen.
   (parse_error): New arg SET_STATUS. Also detect it based on an
   ERROR status (gpg > 1.4.6).

2007-01-26 Werner Koch <wk@g10code.com>

* w32-io.c (build_commandline): Fixed stupid quoting bug.
* w32-glib-io.c (build_commandline): Ditto.

* rungpg.c (gpg_set_locale): Avoid dangling pointer after free.

* gpgme-config.in: New options --get-gpg and --get-gpgsm.

2007-01-18 Marcus Brinkmann <marcus@g10code.de>

* data.h (_gpgme_data_get_fd): Add prototype.
  (gpgme_data_get_fd_cb): New type.
  (struct _gpgme_data_cbs): New member get_fd.
* data.c (_gpgme_data_get_fd): New function.
* data-fd.c (fd_get_fd): New function.
  (fd_cbs): Add fd_get_fd.
* data-stream.c (stream_get_fd): New function.
  (stream_cbs): Add stream_get_fd.
* data-mem.c (mem_cbs): Add NULL for get_fd callback.
* data-user.c (user_cbs): Likewise.
* engine-gpgsm.c (gpgsm_set_fd) [USE_DESCRIPTOR_PASSING]: Try to
  short-cut by passing the data descriptor directly.

2007-01-17 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (build_commandline): Quote all command line arguments.
* w32-glib-io.c (build_commandline): Likewise.

2007-01-10 Werner Koch <wk@g10code.com>

* ttyname_r.c (ttyname_r) [W32]: Return a dummy name.

2007-01-08 Werner Koch <wk@g10code.com>

* version.c (do_subsystem_inits): Do assuan init only if building
  with Assuan.
* setenv.c: Include assuan-def.h only if building with Assuan support.

* op-support.c (_gpgme_op_reset): Set LC_MESSAGES only if defined.
* engine-gpgsm.c (gpgsm_set_locale): Ditto.
* rungpg.c (gpg_set_locale): Ditto.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_protocol): Shut down the engine when switching protocols.
  (gpgme_ctx_set_engine_info): Likewise for engine info.
* engine.h (_gpgme_engine_reset): New function prototype.
* engine.c (_gpgme_engine_reset): New function.
* engine-backend.h (struct engine_ops): New member RESET.
* rungpg.c (_gpgme_engine_ops_gpg): Add NULL for reset function.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm)
  [USE_DESCRIPTOR_PASSING]: Add gpgsm_reset for reset.
  (_gpgme_engine_ops_gpgsm) [!USE_DESCRIPTOR_PASSING]: Add NULL for reset function.
  (gpgsm_reset) [USE_DESCRIPTOR_PASSING]: New function.
* op-support.c (_gpgme_op_reset): Try to use the engine's reset function if available.
* engine-gpgsm.c (gpgsm_new): Move code to dup status_fd to ...
  (start): ... here.

* engine.h (_gpgme_engine_new): Remove arguments lc ctype and lc messages from prototype.
  (_gpgme_engine_set_locale): New prototype.
* engine.c (_gpgme_engine_set_locale): New function.
* op-support.c (_gpgme_op_reset): Call _gpgme_engine_set_locale.
* engine-backend.h (struct engine_ops): Add new member SET_LOCALE.
  Remove arguments lc_messages and lc ctype from member NEW.
* engine-gpgsm.c (struct engine_gpgsm): New members lc ctype_set and lc messages_set.
  (gpgsm_new): Remove lc_messages and lc ctype arguments.
  (gpgsm_set_locale): New function.
  (_gpgme_engine_ops_gpgsm): Add gpgsm_set_locale.
* rungpg.c (struct engine_gpg): Add new members lc_messages and lc ctype.
  (gpg_release): Release lc_messages and lc ctype if set.
  (gpg_new): Remove lc_messages and lc ctype arguments.
  (gpg_set_locale): New function.
  (_gpgme_engine_ops_gpg): Add gpg_set_locale.
  (add_arg): Implement in terms of:
(add_arg_ext): New function.
(start): Set lc-messages and lc-ctype arguments here.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (struct engine_gpgsm): Move members
input_fd_server, output_fd_server, message_fd_server to ...
(iocb_data): ... here (as server_fd).
(close_notify_handler): Reset tags as well.
(gpgsm_new): Implement support for descriptor passing.
(fd_type_t): New type.
(gpgsm_clear_fd): New function. Use it instead of _gpgsm_io_close
for unused communication channels.
(gpgsm_set_fd): Rewritten to support descriptor passing. All
relevant callers adjusted as well (previously of _gpgme_io_close).

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* version.c: Include "assuan.h".
(do_subsystem_inits): Call assuan_set_assuan_err_source.

2006-12-01 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_real_la_SOURCES): Rename to main_sources.
(libgpgme_la_SOURCES, libgpgme_pthread_la_SOURCES,
libgpgme_glib_la_SOURCES, libgpgme_pth_la_SOURCES): Add
$\$(main_sources).
(libgpgme_la_DEPENDENCIES, libgpgme_la_LIBADD,
libgpgme_pthread_la_DEPENDENCIES, libgpgme_pthread_la_LIBADD,
libgpgme_pth_la_DEPENDENCIES, libgpgme_pth_la_LIBADD,
libgpgme_glib_la_DEPENDENCIES, libgpgme_glib_la_LIBADD): Remove
libgpgme-real.la.
(noinst_LTLIBRARIES): Removed.
(libgpgme_glib_la_CFLAGS, libgpgme_pth_la_CFLAGS): Removed.
(AM_CFLAGS): New variable.

2006-11-30 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Replace AssuanError with gpg_error_t and
ASSUAN_CONTEXT with assuan_context_t.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Check return value of
assuan_pipe_connect.

* rungpg.c: Include <unistd.h>.

2006-10-24 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c (gpgme_op_trustlist_next): Return error if OPD is NULL.

2006-10-23 Marcus Brinkmann <marcus@g10code.de>

* wait-global.c (gpgme_wait): Unlock CTX_LIST_LOCK while calling _gpgme_engine_io_event().

* keylist.c (gpgme_op_keylist_next): Return error if OPD is NULL.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (gpgme_data_release_and_get_mem): Release the data object properly.

2006-09-22 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (keylist_colon_handler): Move debug output after initialising KEY.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (Options): Add NETLIBS.

* Makefile.am (libgpgme_la_LIBADD, libgpgme_pthread_la_LIBADD, libgpgme_pth_la_LIBADD, libgpgme_glib_la_LIBADD): Add NETLIBS.

* rungpg.c (read_status): Fix comparison disguising as an assignment.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_locale): Remove conditional on HAVE_W32_SYSTEM, and just check for LC_MESSAGES.

2006-07-16 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (read_status): Strip potential carriage return.

* genkey.c (get_key_parameter): Skip potential carriage return.

* version.c (_gpgme_get_program_version): Strip potential carriage return.

* data.c (gpgme_data_set_file_name): Allow to clear the file name by passing NULL.
2006-06-22 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_get_key): Also clone the engine info.

2006-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (cflags_pth): Revert accidental removal of
  pthread support with last change.

2006-02-28 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (O_BINARY) ![O_BINARY]: New macro.
  (_gpgme_io_pipe): Open pipes in binary mode.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* engine.c (gpgme_engine_check_version): Reimplemented to allow
  checking the version correctly even after changing the engine
  information. Bug reported by Stphane Corthesy.

* rungpg.c (read_colon_line): Invoke colon preprocess handler if
  it is set.
  (colon_preprocessor_t): New type.
  (struct engine_gpg): New member colon.preprocess_fnc.
  (gpg_keylist_preprocess): New function.
* keylist.c (keylist_colon_handler): Allow short key IDs.

2006-02-15 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (create_writer): Make C->have_data a manually reset
  event.
  (writer): Move code from end of if block to beginning, so it
  is also run the first time.
  (_gpgme_io_write): Move assert check after error check. Reset
  the is_empty event, and also do it eagerly.
  (_gpgme_io_select): Unconditionally wait for the is_empty event.

2006-01-26 Werner Koch <wk@g10code.com>

* w32-util.c (_gpgme_get_conf_int): New.
* w32-io.c (get_desired_thread_priority): New.
  (create_reader, create_writer): Use it here.

2006-01-04 Werner Koch <wk@g10code.com>

* debug.h (_gpgme_debug_srcname): New. Use it with the debug macros.

2006-01-03 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_close): Only close fd if there is no channel for it.

2005-12-31 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (find_channel): Set channel to unbuffered. (_gpgme_io_select): Fix debug output.

2005-12-23 Werner Koch <wk@g10code.com>

* gpgme.h (struct _gpgme_signature): Append field PKA_ADDRESS. 
* verify.c (release_op_data, _gpgme_verify_status_handler): Set this field.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.h (gpgme_status_code_t): Added GPGME_STATUS_PKA_TRUST_BAD and GPGME_STATUS_PKA_TRUST_GOOD. 
(struct _gpgme_signature): New field pka_trust. 
* verify.c (_gpgme_verify_status_handler): Set pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* keylist.c (keylist_colon_handler): Store fingerprints of the subkeys. Reset the secret flag of subkeys for stub secret keys. 
(NR_FIELDS): Bumped up to 16

2005-11-27 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_set_engine_info): Use new_file_name in engine_get_version invocation. Reported by Stphane Corthsy.

2005-11-24 Marcus Brinkmann <marcus@g10code.de>

* w32-glib-io.c (_gpgme_io_fd2str): Remove debug printf.

2005-11-18 Werner Koch <wk@g10code.com>

* w32-glib-io.c: Include glib.h before windows to avoid a symbol shadowing warning. 
(find_channel): Better use g_io_channel_win32_new_fd instead of the autodetection function g_io_channel_unix_new.
(_gpgme_io_select): Rewritten. It is now a fully working select implementation.

2005-11-18 Marcus Brinkmann <marcus@g10code.de>

* priv-io.h (_gpgme_io_fd2str): New prototype.
* w32-io.c (_gpgme_io_fd2str): New function.
* rungpg.c: Use this new function.
* w32-glib-io.c (_gpgme_io_fd2str): Rewrote the file handle code again. Two's company, three's the musketeers.

* w32-glib-io.c: Rewrote the file handle code. We don't create system fds for every handle (doesn't work for inherited handles), but we create pseudo fds in a private namespace that designate a handle and potentially a giochannel.

2005-11-18 Werner Koch <wk@g10code.com>

* versioninfo.rc.in: Set file version to LT-version + Svn-revision.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.def (gpgme_get_giochannel): Add symbol.
* Makefile.am (system_components) [HAVE_DOSISH_SYSTEM]: Remove w32-io.c.

(ltlib_gpgme_extra): New variable.
(lib_LTLIBRARIES): Add $(ltlib_gpgme_extra).
(system_components_not_extra): New variable.
(libgpgme_la_SOURCES, libgpgme_pthread_la_SOURCES,
(libgpgme_pth_la_SOURCES): Add $(system_components_not_extra).
(libgpgme_glib_la_LDFLAGS, libgpgme_glib_la_DEPENDENCIES,
(libgpgme_glib_la_LIBADD, libgpgme_glib_la_CFLAGS)
[BUILD_W32_GLIB]: New variables.
* gpgme-config.in (glib): New option.
* gpgme.m4 (AM_PATH_GPGME_GLIB): New macro.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_waitpid, _gpgme_io_kill): Removed.
(_gpgme_io_waitpid): Declare static.

2005-10-24 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_spawn): Don't minimize window, hide it.
2005-10-21 Werner Koch <wk@g10code.com>

* Makefile.am: Fixed cut+paste problem

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am: Build versioninfo.lo, not versioninfo.o. Also, fix the whole mess.

2005-10-16 Marcus Brinkmann <marcus@g10code.de>

* runpgp.c (gpg_edit): Don't add a key argument if in card edit mode.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme.dll gpgme.dll.a): Use $(srcdir) for gpgme.def.

* gpgme.h (gpgme_free): New prototype.
* data-mem.c (gpgme_free): New function.
* libgpgme.vers (GPGME_1.1): Add gpgme_free.
* gpgme.def: Add gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* util.h (_gpgme_decode_percent_string): Add new argument BINARY to prototype.
* verify.c (parse_notation): Likewise for invocation.
* conversion.c (_gpgme_decode_percent_string): Likewise to declaration. If set, do not replace \0' characters with a printable string.
* gpgme.h (struct _gpgme_key_sig): New field notations.
* ops.h (_gpgme_parse_notation): New prototype.
* sig-notation.c (_gpgme_parse_notation): New function.
* key.c (gpgme_key_unref): Free all signature notations.
* keylist.c (op_data_t): New member tmp_keysig.
  (finish_key): Clear OPD->tmp_keysig.
* gpgme.c (gpgme_set_keylist_mode): Remove check.
* runpgp.c (gpg_keylist): Support listing signature notations.
  (gpg_keylist_ext): Likewise.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* engine.h (_gpgme_set_engine_info): Add prototype.
* engine-backend.h (struct engine_ops): Change return type of get_file_name() to const char * to silence gcc warning.
* engine.c (engine_get_file_name): Change return type to const char * to silence gcc warning.
  (gpgme_get_engine_info): Use transitional variable to go from const char * to char * to silence gcc warning.
  (_gpgme_set_engine_info): Likewise.
* engine-gpgsm.c (struct engine_gpgsm): Change type of LINE to char * to silence gcc warning.
  (gpgsm_new): Make ARGV a pointer to const char.
  (status_handler): Change type of SRC, END, DST, ALINE and NEWLINE to char * to silence gcc warning.

* gpgme.def: Add gpgme_data_set_file_name, gpgme_data_get_file_name, gpgme_sig_notation_clear, gpgme_sig_notation_add and gpgme_sig_notation_get.
* libgpgme.vers: Add gpgme_sig_notation_clear, gpgme_sig_notation_add and gpgme_sig_notation_get.
* Makefile.am (libgpgme_real_la_SOURCES): Add sig-notation.c.
* context.h (struct gpgme_context): New field sig_notations.
* gpgme.h (struct _gpgme_sig_notation): New member value_len and critical.
  (GPGME_SIG_NOTATION_CRITICAL): New symbol.
  (gpgme_sig_notation_flags_t): New type.
* verify.c (parse_notation): Use support functions.
  (release_op_data): Likewise.
  * rungpg.c (append_args_from_sig_notations): New function.
  (gpg_encrypt_sign, gpg_sign): Call it.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* data.h (struct gpgme_data): New member file_name.
* data.c (gpgme_data_set_filename): New function.
  (_gpgme_data_release): Free DH->filename if necessary.
  (gpgme_data_set_filename): New function.
* rungpg.c (gpg_encrypt): Set filename option.
  (gpg_encrypt_sign): Likewise.
  (gpg_sign): Likewise.
* libgpgme.vers (GPGME_1.1): Add gpgme_data_set_filename and gpgme_data_get_filename.

* decrypt.c, verify.c, gpgme.h: Replace plaintext_filename with file_name.

2005-09-29 Marcus Brinkmann <marcus@g10code.de>
* gpgme.h (struct _gpgme_key): Add field is_qualified.
(struct _gpgme_subkey): Likewise.
* keylist.c (set_subkey_capability, set_mainkey_capability): Set field is_qualified.

2005-09-23 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_pipe): Removed use of environment variable again.
(create_reader, create_writer): Set thread priority higher.

2005-09-19 Werner Koch <wk@g10code.com>

* w32-io.c (_gpgme_io_pipe): New environment variable to change the size of the pipe buffer.

2005-09-13 Werner Koch <wk@g10code.com>

* ath.c: Changes to make it work under W32.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Set to ath.h and ath.c.
(ath_pth_src, ath_pthread_src): Removed.
(w32_o_files): Replace ath-compat.o with ath.o.
(libgpgme_pth_la_CFLAGS): New variable.
* ath-compat.c, ath-pthread-compat.c, ath-pth-compat.c: Removed.
* ath.h (ath_pthread_available, ath_pth_available): Removed.
(ath_init) !_ATH_EXT_SYM_PREFIX: Do not define macro.
(struct ath_ops, ath_init) !_ATH_COMPAT: Removed.
(_ATH_COMPAT): Macro removed.
* posix-sema.c (_gpgme_sema_subsystem_init): Do not call _gpgme_ati_init.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (release_op_data): Do not free opd->tmp_uid.

2005-09-07 Werner Koch <wk@g10code.com>

* w32-io.c (build_commandline): Quote argv[0].

2005-08-26 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (command_handler): Use _gpgme_io_write instead of write.

* edit.c (command_handler): Do not depend on PROCESSED being
available.

* engine.h (engine_command_handler_t): Add new argument processed.
* ops.h (_gpgme_passphrase_command_handler_internal): Rename prototype to ...
  (_gpgme_passphrase_command_handler): ... this one.
* passphrase.c (_gpgme_passphrase_command_handler_internal): Rename to ...
  (_gpgme_passphrase_command_handler): ... this one.
* edit.c (command_handler): Add new argument processed. Remove local variable with the same name. Always return processed as true.
* rungpg.c (command_handler): Send a newline character if the handler did not.

2005-08-26 Werner Koch <wk@g10code.com>

* w32-util.c (read_w32_registry_string): Updated from code used by GnuPG. This allows for expanding strings and features the implicit fallback key.
  (w32_shgetfolderpath, find_program_at_standard_place): New.
  (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): With no registry entry, locate the programs at the standard place.
  (dlopen, dlsym, dlclose): New, so that we can keep on using what we are accustomed to.

* debug.c (debug_init): Use PATHSEP_C so that under W32 a semicolon is used which allows us to create files with drive letters.

* w32-io.c (_gpgme_io_read, _gpgme_io_write): Print content in debug mode too.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_status_code_t): Add GPGME_STATUS_PLAINTEXT.
  (struct_gpgme_op_decrypt_result): New member plaintext_filename.
  (struct_gpgme_op_verify_result): Likewise.
* ops.h (_gpgme_parse_plaintext): Add prototype.
* op-support.c (_gpgme_parse_plaintext): New function.
* decrypt.c (release_op_data): Release OPD->result.plaintext_filename.
  (_gpgme_decrypt_status_handler): Handle GPGME_STATUS_PLAINTEXT.
* verify.c (release_op_data): Release OPD->result.plaintext_filename.
  (_gpgme_verify_status_handler): Handle GPGME_STATUS_PLAINTEXT.

2005-08-08 Werner Koch <wk@g10code.com>
* util.h (stpcpy): Renamed to ..
  (_gpgme_stpcpy): .. this and made inline. This avoids duplicate
definitions when linking statically.
* stpcpy.c: Removed.

2005-08-19 Werner Koch <wk@g10code.com>

* gpgme.def: New.
* versioninfo.rc.in: New.
* Makefile.am: Adds support for building a W32 DLL.

* ttyname_r.c (ttyname_r) [W32]: Return error.
* ath-compat.c [W32]: select and co are not yet supported; return
  error.
* data-stream.c (stream_seek): Use ftell if ftello is not available.

2005-07-26 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_get_key): Allow key IDs.

2005-06-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Only call GPGME_CONFIG if found.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_signature): New members pubkey_algo and
  hash_algo.
* verify.c (parse_valid_sig): Parse pubkey and hash algo numbers.
  (parse_new_sig): Parse pubkey, hash algo and timestamp for ERRSIG.

  (_gpgme_decrypt_status_handler): Fix last change.

* gpgme.h (struct _gpgme_recipient): New structure.
  (gpgme_recipient_t): New type.
  (struct _gpgme_op_decrypt_result): Add member recipients.
* decrypt.c (op_data_t): New member last_recipient_p.
  (_gpgme_op_decrypt_init_result): Initialize last_recipient_p.
  (parse_enc_to): New function.
  (_gpgme_decrypt_status_handler): Handle status ENC_TO and
  NO_SECKEY.

* wait-global.c (gpgme_wait): Break out of the fd processing loop
  after an error.
  Reported by Igor Belyi <gpgme@katehok.ac93.org>.

2005-06-02 Marcus Brinkmann <marcus@g10code.de>
* wait.h (_gpgme_run_io_cb): New prototype.
* wait.c (_gpgme_run_io_cb): New function.
* wait-global.c (gpgme_wait): Call it.
* wait-user.c (_gpgme_user_io_cb_handler): Likewise.
* wait-private.c (_gpgme_wait_on_condition): Likewise.

2005-06-02 Werner Koch <wk@g10code.com>

* passphrase.c (_gpgme_passphrase_status_handler): Take care of
  GPGME_STATUS_NEED_PASSPHRASE_PIN.
  (_gpgme_passphrase_command_handler_internal): Also act on the key
  "passphrase.pin.ask".

* gpgme.h: Added status codes GPGME_STATUS_SIG_SUBPACKET,
  GPGME_STATUS_NEED_PASSPHRASE_PIN, GPGME_STATUS_SC_OP_FAILURE,
  GPGME_STATUS_SC_OP_SUCCESS, GPGME_STATUS_CARDCTRL,
  GPGME_STATUS_BACKUP_KEY_CREATED.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* data-user.c: Include <errno.h>.

2005-05-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_new): Set the CTX->include_certs default to the
  default.

2005-05-11 Marcus Brinkmann <marcus@g10code.de>

* w32-io.c (_gpgme_io_select): Fix loop increment.

2005-05-05 Marcus Brinkmann <marcus@g10code.de>

* data-user.c (user_release): Only call user hook if provided.
  (user_seek): Return EBADF if no user hook is provided.
  (user_read): Likewise.
  (user_write): Likewise.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GPGME_INCLUDE_CERTS_DEFAULT): New macro.
* engine-gpgsm.c (gpgsm_sign): Send the include-certs option after
  the reset, just for cleanliness, and do not sent it at all if the
  default is requested.
* gpgme.c (gpgme_set_include_certs): Allow to use
  GPGME_INCLUDE_CERTS_DEFAULT.
2005-04-21  Werner Koch  <wk@g10code.com>

* verify.c (calc_sig_summary): Set the key revoked bit.

2005-04-14  Marcus Brinkmann  <marcus@g10code.de>

* wait-global.c (gpgme_wait): Use LI->ctx when checking a context in the list, not the user-provided CTX.
Reported by Igor Belyi <gpgme@katehok.ac93.org>.

* wait-global.c (gpgme_wait): If no context is found, and we should not hang, set *status to 0 and return NULL.
Reported by Igor Belyi <gpgme@katehok.ac93.org>.

2005-03-24  Marcus Brinkmann  <marcus@g10code.de>

* data.h (EOPNOTSUPP) [_WIN32]: Remove definition.
* data.c (EOPNOTSUPP) [HAVE_W32_SYSTEM]: Remove definition.
  (gpgme_data_read, gpgme_data_write, gpgme_data_seek): Return ENOSYS instead EOPNOTSUPP.
* data-compat.c (EOPNOTSUPP) [HAVE_W32_SYSTEM]: Remove definition.
  (gpgme_error_to_errno): Map GPG_ERR_NOT_SUPPORTED to ENOSYS.

2005-03-24  Marcus Brinkmann  <marcus@g10code.de>

* io.h: Rename to ...
* priv-io.h: ... this.
* Makefile.am (libgpgme_real_la_SOURCES): Change io.h to priv-io.h.
* data.c, engine-gpgsm.c, posix-io.c, rungpg.c, version.c.
  w32-io.c, w32-private.c, w32-global.c, w32-user.c, w32.c:
  Change all includes of "io.h" to "priv-io.h"

2005-03-09  Werner Koch  <wk@g10code.com>

* w32-util.c (_gpgme_get_gpg_path, _gpgme_get_gpgsm_path): Do not cast away type checks.

* io.h [W32]: Do not include stdio.h. If it is needed do it at the right place.

* data.h [W32]: Removed kludge for EOPNOTSUP.
* data.c, data-compat.c [W32]: Explicitly test for it here.

  Replaced use of _WIN32 by HAVE_W32_SYSTEM except for public header files.

2005-03-07  Timo Schulz  <twoaday@g10code.de>
* gpgme.h: [_WIN32] Removed ssize_t typedef.
* ath.h: [_WIN32] Added some (dummy) types.
* io.h: [_WIN32] include stdio.h.
* data.h: [_WIN32] Define EOPNOTSUPP.
* gpgme.c [_WIN32] (gpgme_set_locale): Disabled.

2004-12-12 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_set_engine_info): Fix assertion.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* util.h [HAVE_CONFIG_H && HAVE_TTYNAME_R] (ttyname_r): Define prototype.
* ttyname_r.c: New file.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* putc_unlocked.c, funopen.c: I just claim copyright on these files and change their license to LGPL, because they are totally trivial wrapper functions.
* isascii.c: Change copyright notice to the one from ctype/ctype.h in the GNU C Library (CVS Head 2004-10-10), where isascii is defined as a macro doing exactly the same as the function in this file.
* memrchr.c: Update from the GNU C Library (CVS Head 2001-07-06).
* stncpy.c: Update from the GNU C Library (CVS Head 2004-10-10).
* ath.c, ath-compat.c, ath.h, ath-p.h, ath-pthread.c, ath-pthread-compat.c, context.h, conversion.c, data.c, data-compat.c, data-fd.c, data.h, data-mem.c, data-stream.c, data-user.c, debug.c, debug.h, encrypt.c, decrypt.c, decrypt-verify.c, delete.c, edit.c, encrypt.c, encrypt-sign.c, engine-backend.h, engine.c, engine-gpgsm.c, engine.h, error.c, export.c, genkey.c, get-env.c, gpgme.c, gpgme.h, import.c, io.h, key.c, keylist.c, mkstatus, Makefile.am, ops.h, op-support.c, passphrase.c, posix-io.c, posix-sema.c, posix-util.c, progress.c, runpg.c, semi.h, sign.c, signers.c, trust-item.c, trustlist.c, util.c, verify.c, version.c, w32-io.c, w32-sema.c, w32-util.c, wait.c, wait-global.c, wait.h, wait-private.c, wait-user.c: Change license to LGPL.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers (GPGME_1.1): New version.
* engine-backend.h (struct engine_ops): Add argument FILE_NAME to member get_version(). Add arguments FILE_NAME and HOME_DIR to
member new()). Change return type of get_file_name and get_version to char *.

* engine-gpgsm.c (gpgsm_get_version): Change return type to char pointer. Do not cache result.

(gpgsm_new): Add file_name and home_dir argument, and use them instead of the defaults, if set.

* rungpg.c (struct engine_gpg): New member file_name.

(gpg_get_version): Change return type to char pointer, and do not cache result.

(gpg_release): Free gpg->file_name.

(gpg_new): Take new arguments file_name and home_dir. Set the --homedir argument if HOME_DIR is not NULL. Set gpg->file_name.

(start): Use gpg->file_name instead _gpgme_get_gpg_path, if set.

* engine.h (_gpgme_engine_info_copy, _gpgme_engine_info_release): New prototypes.

(_gpgme_engine_new): Change first argument to gpgme_engine_info_t info.

* engine.c: Include <assert.h>.

(gpgme_get_engine_info): Set *INFO within the lock. Move ENGINE_INFO and ENGINE_INFO_LOCK to ....


(engine_get_version): Add file_name argument to get_version invocation. Change return type to char pointer.

(gpgme_engine_check_version): Rewritten to free() the return value of engine_get_version after using it.

(_gpgme_engine_info_release): New function.

(gpgme_get_engine_info): Rewritten.

(_gpgme_engine_info_copy): New function.

(_gpgme_set_engine_info): New function.

(_gpgme_engine_new): Change first argument to gpgme_engine_info_t info, and use that.

* gpgme.h (struct _gpgme_engine_info): Change type of file_name and version to char * (remove the const). New member home_dir.


* context.h (struct gpgme_context): New member engine_info.

* gpgme.c (gpgme_new): Allocate CTX->engine_info.

(gpgme_release): Deallocate CTX->engine_info.

(gpgme_ctx_get_engine_info, gpgme_ctx_set_engine_info): New functions.

* op-support.c (_gpgme_op_reset): Look for correct engine info and pass it to _gpgme_engine_new.

* version.c (gpgme_check_version): Adjust to _gpgme_compare_versions returning an int.

(_gpgme_compare_versions): Return an int value, not a const char pointer.

* ops.h (_gpgme_compare_versions): Same for prototype.
2004-10-03 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_trust): If no reason is provided, set
SIG->validity_reason to 0.
(calc_sig_summary): Set GPGME_SIGSUM_CRL_TOO_OLD if appropriate.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Return 0 if ERR is 0.
(start): Call map_assuan_error on return value of
assuan_write_line.

2004-10-05 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_data_lookup): Use char pointer for
pointer arithmetic.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Implement the --api-version check.

* rungpg.c (read_status): Move the polling of the output data pipe
to just before removing the command fd, from just before adding
it. This avoids buffering problems.

* data.c (_gpgme_data_inbound_handler): Use _gpgme_io_read, not
read, to improve debug output.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GPGME_IMPORT_NEW, GPGME_IMPORT_UID, GPGME_IMPORT_SIG,
GPGME_IMPORT_SUBKEY, GPGME_IMPORT_SECRET,
GPGME_KEYLIST_MODE_LOCAL, GPGME_KEYLIST_MODERN_EXTERN,
GPGME_KEYLIST_MODE_SIGS, GPGME_KEYLIST_MODE_VALIDATE): Change from
enum to macros.
(gpgme_keylist_mode_t): Define as unsigned int.
(gpgme_key_t): Change type of keylist_mode to
gpgme_keylist_mode_t.

2004-09-23 Marcus Brinkmann <marcus@g10code.de>

* data.c (_gpgme_data_outbound_handler): Close the file descriptor
if we get an EPIPE.

* data-stream.c (stream_seek): Call ftello and return the current
offset.
* data.h (struct gpgme_data): Change type of data.mem.offset to
off_t.
* data.c (gpgme_data_seek): Check dh->cb->seek callback, not read callback. If SEEK_CUR, adjust the offset by the pending buffer size. Clear pending buffer on success.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>
* gpgme.m4: Add copyright notice.

2004-08-18 Marcus Brinkmann <marcus@g10code.de>
* passphrase.c (_gpgme_passphrase_status_handler): Always run the status handler.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>
* rungpg.c (build_argv): Use --no-sk-comment, not --no-comment.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>
* key.c (_gpgme_key_append_name): Make sure tail points to the byte following the uid. (_gpgme_key_add_sig): Likewise. Don't use calloc, but malloc and memset.

2004-06-02 Marcus Brinkmann <marcus@g10code.de>
* libgpgme.vers: Remove C-style comment, which is not supported by older binutils.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>
* gpgme-config.in (Options): Support --api-version.
* libgpgme.vers: List all gpgme symbols under version GPGME_1.0.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>
* decrypt.c (_gpgme_decrypt_status_handler): Fix last change.
* verify.c (parse_error): Likewise.
* verify.c (parse_error): Do not skip location of where token.

* gpgme.h (gpgme_status_code_t): Add GPGME_STATUS_REVKEYSIG.
* verify.c (_gpgme_verify_status_handler): Add handling of GPGME_STATUS_REVKEYSIG.
  (parse_trust): Likewise.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>
* gpgme.h (struct _gpgme_decrypt_result): New fields wrong_key_usage and _unused.
* decrypt.c (_gpgme_decrypt_status_handler): Don't skip over character after a matched string, as in a protocol error this could skip over the trailing binary zero. Handle decrypt.keyusage error notifications.

* gpgme.h (struct _gpgme_key): New member keylist_mode.
* keylist.c (keylist_colon_handler): Set the keylist_mode of KEY.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_signature): Change member WRONG_KEY_USAGE to unsigned int. Same for member _unused.

* keylist.c (set_mainkey_trust_info): Rewritten.
  (set_subkey_capability): Handle 'd' (disabled).
  (set_mainkey_capability): Rewritten.

2004-04-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.m4: Quote first argument to AC_DEFUN.

2004-04-21 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_unref): Allow passing NULL like free does.
  The rule of least surprise.

2004-04-15 Werner Koch <wk@gnupg.org>

* verify.c (prepare_new_sig, _gpgme_verify_status_handler): Remove unused result.signatures items.

* keylist.c (gpgme_get_key): Return an error if FPR is NULL.

2004-04-08 Werner Koch <wk@gnupg.org>

* verify.c (_gpgme_verify_status_handler): Ignore the error status if we can't process it.
* decrypt-verify.c (decrypt_verify_status_handler): Backed out yesterday's hack. It is not any longer required.

2004-04-07 Werner Koch <wk@gnupg.org>

* decrypt-verify.c (decrypt_verify_status_handler): Hack to cope with meaningless error codes from the verify status function.
2004-04-05 Werner Koch  <wk@gnupg.org>

* gpgme.h: Add GPGME_STATUS_NEWSIG.

* verify.c (parse_error): Compare only the last part of the where
token.
(prepare_new_sig): New.
(parse_new_sig): Use prepare_new_sig when required.
(_gpgme_verify_status_handler): Handle STATUS_NEWSIG.

* engine-gpgsm.c (gpgsm_keylist_ext): Send with-validation
   option. Fixed pattern construction.
(status_handler): Add debugging output.

2004-03-23 Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Protect _only_ tty related code with
  isatty(). Submitted by Bernhard Herzog.

2004-03-11 Marcus Brinkmann  <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_new): Protect all tty related code with
  isatty().

* rungpg.c (gpg_cancel): Set GPG->fd_data_map to NULL after
  releasing it.
* engine-gpgsm.c (gpgsm_cancel): Only call assuan_disconnect if
  GPGSM->assuan_ctx is not NULL. Set it to NULL afterwards.

2004-03-07 Marcus Brinkmann  <marcus@g10code.de>

* gpgme-config.in: Do not emit include and lib directory for
  prefix "/usr" or "".

2004-03-03 Werner Koch  <wk@gnupg.org>

* engine-gpgsm.c (gpgsm_export_ext): Properly insert a space
  between patterns.

2004-02-18 Werner Koch  <wk@gnupg.org>

* gpgme-config.in: Ignore setting of --prefix.

2004-02-25 Marcus Brinkmann  <marcus@g10code.de>

* rungpg.c (gpg_cancel): New function.
  (gpg_release): Call it here.
  (_gpgme_engine_ops_gpg): Add it here.
* engine-gpgsm.c (gpgsm_cancel): Fix last change.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_cancel): New function.
* engine-backend.h (struct engine_ops): New member cancel.
* engine.h (_gpgme_engine_cancel): New prototype.
* engine.c (_gpgme_engine_cancel): New function.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Add new member cancel.
  (gpgsm_cancel): New function.
  (gpgsm_release): Use it.
* rungpg.c (_gpgme_engine_ops_gpg): Add new member cancel.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_KEYLIST_MODE_VALIDATE.
* engine-gpgsm.c (gpgsm_keylist): Send this to gpgsm.

2004-02-15 Werner Koch <wk@gnupg.org>

* memrchr.c (memrchr): Fixed implementation. Problem pointed out
  by Adriaan de Groot.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (build_args): Use --no-comment, not --comment "".

* data-compat.c (gpgme_data_new_from_filepart): Call fseeko if
  available.
  * data-stream.c (stream_seek): Likewise.

2004-01-16 Werner Koch <wk@gnupg.org>

* conversion.c (_gpgme_map_gnupg_error): Handle numerical codes as
  used by GnuPG 1.9.x

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_key_sig): Fix comment on REVOKED.

2004-01-12 Werner Koch <wk@gnupg.org>

* sign.c: Include util.h for prototype of _gpgme_parse_timestamp.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (_GPGME_D_CLASS): Revert this change.
  (struct _gpgme_key_sig): For C++ compilers, rename class
member to _obsolete_class. Add new member sig_class.
(struct _gpgme_new_signature): Same here.
* key.c (gpgme_key_sig_get_ulong_attr): Use CERTSIG->sig_class,
not CERTSIG->class.
* keylist.c (keylist_colon_handler): Likewise for KEYSIG, but keep
setting KEYSIG->class, too. Rename variable CLASS to SIG_CLASS.
* sign.c (parse_sig_created): Set SIG->sig_class.

2003-12-22 Werner Koch  <wk@gnupg.org>

* gpgme.h (_GPGME_D_CLASS): Kludge for C++ compatibility without
changing the C API.

2003-11-19 Werner Koch  <wk@gnupg.org>

* conversion.c (_gpgme_parse_timestamp): New.
(atoi_1, atoi_2, atoi_4): New.
* keylist.c (parse_timestamp): Removed. Changed all callers to use
the new function.
* verify.c (parse_valid_sig): Ditto. Replaced the errno check.
* sign.c (parse_sig_created): Ditto.

2003-10-31 Werner Koch  <wk@gnupg.org>

* keylist.c (parse_timestamp): Detect ISO 8601 timestamps and try
to convert them.

2003-10-10 Marcus Brinkmann  <marcus@g10code.de>

* genkey.c (get_key_parameter): Make a copy of the key parameters.
Submitted by Miguel Coca <e970095@zipi.fi.upm.es>.

2003-10-06 Marcus Brinkmann  <marcus@g10code.de>

* data-compat.c: Include <sys/time.h> before <sys/stat.h> for
broken systems.

* engine-gpgsm.c (map_assuan_error): If ERR is -1, return sensible
error.

* posix-io.c (_gpgme_io_subsystem_init): Add function.
(_gpgme_io_spawn): Do not fixup signal handler here.
* version.c (doSubsystem_inits): Call _gpgme_io_subsystem_init.

* debug.c (debug_init): Drop const qualifier from E.

* ath.h (struct ath_ops): Make ADDR argument of CONNECT prototype
const.
(ath_connect): Make ADDR argument const.
* ath-pthread.c (ath_connect): Likewise.
* ath-pth.c (ath_connect): Likewise.
* ath-compat.c (ath_connect): Likewise.
* ath.c (ath_connect): Likewise.

* ath.h [HAVE_SYS_SELECT_H]: Include <sys/select.h> for fd_set.
[!HAVE_SYS_SELECT_H]: Include <sys/time.h>.

* conversion.c (_gpgme_hextobyte): Drop "unsigned" from type of SRC argument.
* util.h (_gpgme_hextobyte): Likewise for prototype.

* gpgme.h: Remove trailing comma in enum.

* rungpg.c: Do not include <time.h>, <sys/time.h>, <sys/types.h>, <signal.h>, <fcntl.h>, or "unistd.h".

2003-10-02 Marcus Brinkmann <marcus@g10code.de>

* engine-backend.h (struct engine_ops): Add argument TYPE.
* engine.c (_gpgme_engine_op_edit): Likewise.
* engine.h: Likewise.
* rungpg.c (gpg_edit): Likewise. Use it.
* edit.c (edit_start): Likewise. Pass it on.
  (gpgme_op_edit_start, gpgme_op_edit): Likewise.
  (gpgme_op_card_edit_start, gpgme_op_card_edit): New functions.

2003-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpg_strerror_r): Change prototype to match gpg_strerror_r change.
* error.c (gpg_strerror_r): Likewise, also update implementation.

* gpgme.c (gpgme_hash_algo_name): Change name of RMD160 to RIPEMD160, name of TIGER to TIGER192, name of CRC32-RFC1510 to CRC32RFC1510, and name of CRC24-RFC2440 to CRC24RFC2440.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_set_locale.

* gpgme.h: Define macro _GPGME_INLINE depending on the compiler characteristics and use that instead __inline__.

* context.h (struct gpgme_context): New members lc_cctype and lc_messages.
* gpgme.c: Include <locale.h>.

(def_lc_lock, def_lc_ctype, def_lc_messages): New static variables.

(gpgme_set_locale): New function.

* engine.c (_gpgme_engine_new): Add arguments lc_ctype and lc_messages.

* engine.h (_gpgme_engine_new): Likewise.

* engine-gpgsm.c (gpgsm_new): Likewise.

* rungpg.c (gpg_new): Likewise.

* engine-backend.h (struct engine_ops): Likewise to NEW.

* op-support.c (_gpgme_op_reset): Likewise to invocation of _gpgme_engine_new.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_strerror_r): New prototype.

* error.c (gpgme_strerror_r): New function.


* util.h (_gpgme_getenv): Add prototype.

* Makefile.am (libgpgme_real_la_SOURCES): Add get-env.c.

* rungpg.c (build_argv): Use _gpgme_getenv.

* debug.c (debug_init): Likewise.

* engine-gpgsm.c (gpgsm_new): Likewise.

(gpgsm_new): Use ttyname_r.

* w32-io.c (_gpgme_io_spawn): Disable debugging for now.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Use $libdir, not @libdir@, for the echo command.

* gpgme-config.in: Rewritten.

* gpgme.m4: Rewritten.

2003-08-19 Marcus Brinkmann <marcus@g10code.de>

The ath files (ath.h, ath.c, ath-pth.c, ath-pthread.c, ath-compat.c, ath-pth-compat.c and ath-pthread-compat.c) have been updated to have better thread support, and the Makefile.am was changed to reflect that.

* util.h ![HAVE_FOPENCOOKIE]: Remove fopencookie declaration.

* engine-gpgsm.c (gpgsm_assuan_simple_command): Set ERR to return value of status_fnc.

* rungpg.c (start): Return SAVED_ERRNO, not errno.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>
* rungpg.c (start): Use saved_errno instead errno.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* funopen.c, putc_unlocked.c, isasciic.c, memrchr.c: New files.
* fopencookie.c: File removed.

2003-08-15 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in: Put gpg-error related flags after gpgme's.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_new_signature): Rename member CLASS to _OBSOLETE_CLASS, add member CLASS with type unsigned int.
* sign.c (parse_sig_created): Also set SIG->_unused_class for backward compatibility.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_new_sig): Fix status parsing case.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_subkey): Add flag CAN_AUTHENTICATE. Lower UNUSED to 23 bits.
* gpgme.h (struct _gpgme_key): Likewise.
* keylist.c (set_mainkey_capability): Support 'a' and 'A'.
* set_subkey_capability): Support 'a'.

* keylist.c (gpgme_get_key): Check if there is more than one key listed, and return GPG_ERR_AMBIGUOUS_NAME in that case.

* util.h (_gpgme_decode_c_string): Change type of LEN argument to size_t.
* conversion.c (_gpgme_decode_c_string): Likewise.
* conversion.c (_gpgme_decode_percent_string): Likewise.
* gpgme.h (gpgme_map_gnupg_error): Change type of I to unsigned int.
* signers.c (gpgme_signers_clear): Likewise.
* signers.c (gpgme_signers_enum): New unsigned variable SEQNO, set to SEQ. Use SEQNO instead SEQ.
* wait.c (fd_table_put): Change type of I and J to unsigned int.
* wait-global.c (_gpgme_wait_global_event_cb): Change type of IDX to unsigned int.
* wait-private.c (_gpgme_wait_on_condition): Change type of IDX
and I to unsigned int.
* posix-io.c (_gpgme_io_close): Cast return value of macro DIM to int to suppress gcc warning.
(_gpgme_io_set_close_notify): Likewise.
(_gpgme_io_select): Change type of I to unsigned int.
* engine.c (gpgme_get_engine_info): Change type of PROTO to unsigned int.
* wait-user.c (_gpgme_user_io_cb_handler): Change type of IDX and I to unsigned int.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* decrypt-verify.c (decrypt_verify_status_handler): Expand silly and wrong expression.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* encrypt.c (encrypt_sym_status_handler): Likewise.
* sign.c (sign_status_handler): Likewise.
* verify.c (verify_status_handler): Likewise.
* decrypt.c (decrypt_status_handler): Likewise.

* engine.c (gpgme_get_engine_info): Initialize NULL.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme-config.in (gpg_error_libs): Quote GPG_ERROR_CFLAGS and GPG_ERROR_LIBS when setting the corresponding variables. Reported by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (set_recipients): Move declaration of NEWLEN to the beginning of the block.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (mem_write): Copy original buffer content.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_user_ids_release, gpgme_user_ids_append): Remove prototypes.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): Add @GPG_ERROR_CFLAGS@.
* gpgme-config.in (gpg_error_libs, gpg_error_cflags): New variables. Print them.
* op-support.c (_gpgme_parse_inv_userid): Rename to _gpgme_parse_inv_recp and change to new datatype.
* ops.h (_gpgme_parse_inv_key): Fix prototype.
* gpgme.h (struct _gpgme_invalid_user_id): Rename to __gpgme_invalid_key. Rename field ID to KEY.
(gpgme_invalid_user_id_t): Rename to gpgme_invalid_key_t.
(struct _gpgme_op_encrypt_result): Here, too.
(struct _gpgme_op_sign_result): Likewise.
* encrypt.c (struct op_data): Likewise.
(release_op_data): Likewise.
* sign.c (struct op_data): Likewise.
(release_op_data): Likewise.

* posix-io.c (_gpgme_io_read): Save errno across debug calls.
(_gpgme_io_write): Likewise.
(_gpgme_io_pipe): Likewise.
(_gpgme_io_select): Likewise.

* rungpg.c (struct engine_gpg): Remove arg_error.
(add_arg): Don't set arg_error.
(add_data): Likewise.
(start): Don't check arg_error.
(gpg_new): Check return value of add_arg.
* verify.c (parse_notation): Free allocated memory at error.

2003-06-05 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* Makefile.am (EXTRA_DIST): Remove mkerrors.
(BUILT_SOURCES): Remove errors.c.
(MOSTLYCLEANFILES): Likewise.
(libgpgme_la_SOURCES): Likewise. Add error.c.
(errors.c): Remove target.
* mkerrors: File removed.
* error.c: New file.

* gpgme.h (gpgme_error_t): Change to type gpg_error_t.
(gpgme_err_code_t, gpgme_err_source_t): New types.
(gpgme_err_code, gpgme_err_source, gpgme_error, gpgme_err_make):
New static inline functions.
(gpgme_strsource, gpgme_err_code_from_errno,
gpgme_err_code_to_errno, gpgme_err_make_from_errno,
gpgme_error_from_errno): New prototypes.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_op_export_start): Change second arg to const char *.
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(gpgme_op_export): Likewise.
(gpgme_op_export_ext_start): New prototype.
(gpgme_op_export_ext): Likewise.
* engine.h: Likewise for _gpgme_engine_op_export and
_gpgme_engine_op_export_ext.
* engine-backend.h (struct engine_ops): Change second argument of
prototype of export to const char *, and add reserved int as
third argument. Add prototype for export_ext.
* engine.c (_gpgme_engine_op_export_ext): New function.
(_gpgme_engine_op_export): Change second argument of prototype of
export to const char *, and add reserved int as third argument.
* rungpg.c (gpg_export): Change second argument of prototype of
export to const char *, and add reserved int as third argument.
(gpg_export_ext): New function.
(gpg_keylist_ext): Break loop at error.
(_gpgme_engine_ops_gpg): Add gpg_export_ext.
* engine-gpgsm.c (gpgsm_export): Change second argument of
prototype of export to const char *, and add reserved int as
third argument.
(gpgsm_export_ext): New function.
(_gpgme_engine_ops_gpgsm): Add gpgsm_export_ext.
* export.c (export_start): Change second argument of prototype of
export to const char *, and add reserved int as third argument.
(gpgme_op_export_start): Likewise.
(export_ext_start): New function.
(gpgme_op_export_start): Likewise.
(gpgme_op_export_ext): Likewise.

* gpgme.h (gpgme_keylist_mode_t): New type for anonymous enum.
(gpgme_signum_t): New type for anonymous enum.

* encrypt-sign.c (encrypt_start): Check for errors earlier,
and return an error if RECP is not set.

* Makefile.am (libgpgme_la_SOURCES): Remove user-id.c.
* user-id.c: Remove file.
* ops.h: Remove prototype for _gpgme_user_ids_all_valid.
* gpgme.h (gpgme_encrypt_flags_t): New type.
(gpgme_op_encrypt_start): Change second parameter to type
gpgme_key_t[], and add third parameter.
(gpgme_op_encrypt): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
* encrypt.c (encrypt_start): Likewise.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt): Likewise. Pass flags to engine.
* encrypt-sign.c (encrypt_sign_start): Likewise.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
* engine-backend.h (struct engine_ops): Likewise for prototypes of encrypt and encrypt_sign.
* engine.h: Likewise for prototypes of _gpgme_engine_op_encrypt and _gpgme_engine_op_encrypt_sign.
* engine.c (_gpgme_engine_op_encrypt): Likewise. (_gpgme_engine_op_encrypt_sign): Likewise.
* rungpg.c (gpg_encrypt): Likewise. (gpg_encrypt_sign): Likewise.
* rungpg.c (gpg_encrypt): Check flags for always trust option.
* engine-gpgsm.c (gpgsm_encrypt): Likewise. (set_recipients): Rewritten to use keys instead user IDs.
* rungpg.c (append_args_from_recipients): Rewritten to use keys instead user IDs.
* encrypt.c (_gpgme_encrypt_status_handler): Change errors returned to GPGME_Invalid_Key and GPGME_General_Error.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Rename GpsmObject to engine_gpgsm_t.
  (struct gpgsm_object_s): Rename to struct engine_gpgsm.
* rungpg.c: Rename GpgObject to engine_gpg_t.
  (struct gpg_object_s): Rename to struct engine_gpg.

* context.h (struct gpgme_context): Change EngineObject to engine_object_t.
  (enum ctx_op_data_type): Rename to ctx_op_data_id_t.
  (ctx_op_data_t): New type.
  (struct gpgme_context): Use it.
* ops.h (_gpgme_op_data_lookup): Use new type name.
* op-support.c (_gpgme_op_data_lookup): Likewise.
* engine.c: Rename EngineObject to engine_t in the file. Also EngineStatusHandler to engine_status_handler_t,
  EngineCommandHandler to engine_command_handler_t and EngineColonLineHandler to engine_colon_line_handler.
* rungpg.c (start): Likewise.
* engine-gpgsm.c: Likewise.
  * engine-backend.h (struct engine_ops): Likewise
  * engine.h (struct engine_object_s): Rename to struct engine.
    (EngineObject): Rename to engine_t. Also everywhere else in the file.
    (EngineStatusHandler): Rename to engine_status_handler_t.
    (EngineColonLineHandler): Rename to engine_colon_line_handler_t.
    (EngineCommandHandler): Rename to engine_command_handler_t.

* engine-gpgsm.c (gpgsm_export): Fix bug in last change.

* Makefile.am (libgpgme_la_SOURCES): Remove recipient.c, add
user-id.c.
* gpgme.h (gpgme_recipients_t): Removed.
(gpgme_recipients_new, gpgme_recipients_release,
gpgme_recipients_add_name,
gpgme_recipients_add_name_with_validity, gpgme_recipients_count,
gpgme_recipients_enum_open, gpgme_recipients_enum_read,
gpgme_recipients_enum_close): Removed.
(gpgme_op_encrypt, gpgme_op_encrypt_start, gpgme_op_encrypt_sign,
gpgme_op_encrypt_sign_start, gpgme_op_export_start,
gpgme_op_export): Change second argument to gpgme_user_id_t.
(gpgme_user_ids_release): New prototype.
(gpgme_user_ids_append): Likewise.
* ops.h (_gpgme_recipients_all_valid): Remove.
(_gpgme_user_ids_all_valid): Add.
* context.h (struct gpgme_recipients): Removed.
* user-id.c: New file.
* recipient.c: Removed file.
* rungpg.c (append_args_from_recipients): Change last arg to
gpgme_user_id_t. Reimplement.
(gpg_encrypt): Change second arg to gpgme_user_id_t.
(gpg_encrypt_sign): Likewise.
(gpg_export): Likewise. Rewrite user ID list code.
* engine.c (_gpgme_engine_op_encrypt): Change second arg to
gpgme_user_id_t.
(_gpgme_engine_op_encrypt_sign): Likewise.
(_gpgme_engine_op_export): Likewise.
* engine.h (_gpgme_engine_op_encrypt, _gpgme_engine_op_encrypt_sign,
_gpgme_engine_op_export): Likewise.
* engine-gpgsm.c (set_recipients): Likewise. Rewrite loop code.
(gpgsm_encrypt): Likewise.
(gpgsm_export): Likewise.
* engine-backend.h (struct engine_ops): Likewise for members
ENCRYPT, ENCRYPT_SIGN and EXPORT.
* export.c (export_start, gpgme_op_export_start, gpgme_op_export):
Likewise.
* encrypt.c (encrypt_start): Likewise. Don't check for count of
recipients.
(gpgme_op_encrypt_start): Likewise.
(gpgme_op_encrypt): Likewise.
* encrypt-sign.c (encrypt_sign_start): Likewise.
(gpgme_op_encrypt_sign): Likewise.
(gpgme_op_encrypt_sign_start): Likewise.

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* gpgme.h (struct _gpgme_op_import_result): Add skipped_new_keys.
* import.c (parse_import_res): Add skipped_new_keys parser.
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* op-support.c (_gpgme_parse_inv_userid): Add missing break statements.
* encrypt.c (gpgme_op_encrypt): Use gpgme_error_t instead of int.

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* encrypt.c (gpgme_op_encrypt_result): Use intermediate variable
HOOK to avoid compiler warning. Don't ask, you don't want to know.
(_gpgme_encrypt_status_handler): Likewise.
(_gpgme_op_encrypt_init_result): Likewise.
* decrypt.c (gpgme_op_decrypt_result): Likewise.
(_gpgme_decrypt_status_handler): Likewise.
(_gpgme_op_decrypt_init_result): Likewise.
* verify.c (gpgme_op_verify_result): Likewise.
(_gpgme_verify_status_handler): Likewise.
(_gpgme_op_verify_init_result): Likewise.
* edit.c (edit_status_handler): Likewise.
(command_handler): Likewise.
(edit_start): Likewise.
* genkey.c (gpgme_op_genkey_result): Likewise.
(genkey_status_handler): Likewise.
(genkey_start): Likewise.
* import.c (gpgme_op_import_result): Likewise.
(import_status_handler): Likewise.
(_gpgme_op_import_start): Likewise.
* trustlist.c (gpgme_op_trustlist_next): Likewise.
(_gpgme_op_trustlist_event_cb): Likewise.
(gpgme_op_trustlist_start): Likewise.
* keylist.c (gpgme_op_keylist_result): Likewise.
(keylist_colon_handler): Likewise.
(keylist_status_handler): Likewise.
(_gpgme_op_keylist_event_cb): Likewise.
(gpgme_op_keylist_start): Likewise.
(gpgme_op_keylist_ext_start): Likewise.
(gpgme_op_keylist_next): Likewise.
* passphrase.c (_gpgme_passphrase_status_handler): Likewise.
(_gpgme_passphrase_command_handler_internal): Likewise.
* sign.c (gpgme_op_sign_result): Likewise.
(_gpgme_sign_status_handler): Likewise.
(_gpgme_op_sign_init_result): Likewise.

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* engine.h (EngineCommandHandler): Change last argument to int fd.
* gpgme.h (gpgme_passphrase_cb_t): Rewritten to take parts of the
description and fd.
(gpgme_edit_cb_t): Change last argument to int fd.
* ops.h (_gpgme_passphrase_command_handler_internal): New prototype.
* passphrase.c: Include <assert.h>.
(op_data_t): Rename userid_hint to uid_hint, remove last_pw_handle.
(release_op_data): Check values before calling free.
(_gpgme_passphrase_status_handler): Likewise.
(_gpgme_passphrase_command_handler_internal): New function.
(_gpgme_passphrase_command_handler): Rewritten.
* edit.c (edit_status_handler): Pass -1 as fd argument.
(command_handler): Update prototype. New variable processed. Use
it to store return value of
_gpgme_passphrase_command_handler_internal which is now used
instead _gpgme_passphrase_command_handler. Use it also to check
if we should call the user's edit function. Pass fd to user's
edit function.
* rungpg.c (struct gpg_object_s): Change type of cmd.cb_data to
void *.
(gpg_release): Check value before calling free. Do not release
cmd.cb_data.
(command_cb): Function removed.
(command_handler): New function. Thus we don't use a data object
for command handler stuff anymore, but handle it directly. This
allows proper error reporting (cancel of passphrase requests, for
example). Also all callbacks work via direct writes to the file
descriptor (so that passphrases are not kept in insecure memory).
(gpg_set_command_handler): Rewritten to use even more ugly hacks.
(read_status): Check cmd.keyword before calling free. Install
command_handler as the I/O callback handler with GPG as private
data.

* rungpg.c (gpg_new): Add --enable-progress-filter to gpg
invocation.
* decrypt-verify.c (_gpgme_op_decrypt_verify_start): Rename to
decrypt_verify_start.
(gpgme_op_decrypt_verify_start): Call decrypt_verify_start.
(gpgme_op_decrypt_verify): Likewise.
* verify.c (verify_status_handler): New function that also calls
progress status handler.
(_gpgme_op_verify_start): Set status handler to verify_status_handler.
Rename to (verify_start).
(gpgme_op_verify_start): Call verify_start.
(gpgme_op_verify): Likewise.
* encrypt.c (encrypt_status_handler): New function.
(_gpgme_encrypt_sym_status_handler): Call progress status handler.
Make static. Rename to encrypt_sym_status_handler.
(encrypt_start): Set status handler to encrypt_sym_status_handler
or encrypt_status_handler.
* sign.c (sign_status_handler): New function.
  (sign_start): Set status handler to sign_status_handler.
* decrypt.c (decrypt_status_handler): New function that also calls
  progress status handler.
  (decrypt_start): Set status handler to decrypt_status_handler.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* decrypt-verify.c (decrypt_verify_status_handler): Call
  _gpgme_progress_status_handler.

* conversion.c (_gpgme_decode_c_string): Add missing break
  statement.

* recipient.c (gpgme_recipients_add_name_with_validity): Add one
  to buffer to allocate.

2003-05-19 Marcus Brinkmann <marcus@g10code.de>

* verify.c (parse_new_sig): Fix ERRSIG case.
  Submitted by Benjamin Lee <benjaminlee@users.sf.net>.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: The following types are renamed. The old name is kept
  as a deprecated typedef.
  (GpgmeCtx): Rename to gpgme_ctx_t.
  (GpgmeData): Rename to gpgme_data_t.
  (GpgmeRecipients): Rename to gpgme_recipients_t.
  (GpgmeError): Rename to gpgme_error_t.
  (GpgmeDataEncoding): Rename to gpgme_data_encoding_t.
  (GpgmePubKeyAlgo): Rename to gpgme_pubkey_algo_t.
  (GpgmeHashAlgo): Rename to gpgme_hash_algo_t.
  (GpgmeSigStat): Rename to gpgmeSigStat_t.
  (GpgmeSigMode): Rename to gpgmeSigMode_t.
  (GpgmeAttr): Rename to gpgmeAttr_t.
  (GpgmeValidity): Rename to gpgmeValidity_t.
  (GpgmeProtocol): Rename to gpgmeProtocol_t.
  (GpgmeStatusCode): Rename to gpgmeStatusCode_t.
  (GpgmeEngineInfo): Rename to gpgmeEngineInfo_t.
  (GpgmeSubkey): Rename to gpgmeSubkey_t.
  (GpgmeKeySig): Rename to gpgmeKeySig_t.
  (GpgmeUserID): Rename to gpgmeUserID_t.
  (GpgmePassphraseCb): Rename to gpgmePassphraseCb_t.
  (GpgmeProgressCb): Rename to gpgmeProgressCb_t.
  (GpgmeEditCb): Rename to gpgmeEditCb_t.
  (GpgmeIOCb): Rename to gpgmeIOCb_t.
  (GpgmeRegisterIOCb): Rename to gpgmeRegisterIOCb_t.
  (GpgmeRemoveIOCb): Rename to gpgmeRemoveIOCb_t.
  (GpgmeEventIO): Rename to gpgmeEventIO_t.
(GpgmeEventIOCb): Rename to gpgme_event_io_cb_t.
(GpgmeIOCs): Rename to gpgme_io_cbs.
(gpgme_io_cbs_t): New type.
(GpgmeDataReadCb): Rename to gpgme_data_read_cb_t.
(GpgmeDataWriteCb): Rename to gpgme_data_write_cb_t.
(GpgmeDataSeekCb): Rename to gpgme_data_seek_cb_t.
(GpgmeDataReleaseCb): Rename to gpgme_data_release_cb_t.
(GpgmeDataCbs): Rename to gpgme_data_cbs.
(gpgme_data_cbs_t): New type.
(GpgmeInvalidUserID): Rename to gpgme_invalid_user_id_t.
(GpgmeEncryptResult): Rename to gpgme_encrypt_result_t.
(GpgmeDecryptResult): Rename to gpgme_decrypt_result_t.
(GpgmeNewSignature): Rename to gpgme_new_signature_t.
(GpgmeSignResult): Rename to gpgme_sign_result_t.
(GpgmeSigNotation): Rename to gpgme_sig_notation t.
(GpgmeSignature): Rename to gpgme_signature_t.
(GpgmeVerifyResult): Rename to gpgme_verify_result_t.
(GpgmeImportStatus): Rename to gpgme_import_status_t.
(GpgmeImportResult): Rename to gpgme_import_result_t.
(GpgmeGenKeyResult): Rename to gpgme_genkey_result_t.
(GpgmeKeyListResult): Rename to gpgme_keylist_result_t.
(GpgmeTrustItem): Rename to gpgme_trust_item_t.
* gpgme.h (gpgme_deprecated_error_t): New type, swallowing macros
GPGME_No_Recipients, GPGME_Invalid_Recipient and
GPGME_No_Passphrase.
* data.h (struct gpgme_data_s): Rename to struct gpgme_data.
* context.h (struct gpgme_context_s): Rename to struct
  gpgme_context.
(struct gpgme_recipients_s): Rename to gpgme_recipients.

2003-05-18 Marcus Brinkmann  <marcus@g10code.de>

* keylist.c (finish_key): Clear OPD->tmp_uid.

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* verify.c (_gpgme_verify_status_handler): Return GPGME_No_Data
  for NODATA status without signatures.

2003-05-05 Marcus Brinkmann  <marcus@g10code.de>

* key.c (_gpgme_key_append_name): Use decoded string to parse user id.
  (_gpgme_key_add_sig): Likewise.

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* context.h (struct gpgme_context_s): Remove member op_info.
* key.c (_gpgme_key_add_sig): Initialize SIG->uid.

* gpgme.h (GpgmeError): Add deprecated values for GPGME_Invalid_Type and GPGME_Invalid_Mode.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_get_op_info): Remove prototype.
* ops.h (_gpgme_set_op_info,
  _gpgme_data_release_and_return_string, _gpgme_data_get_as_string,
  _gpgme_data_append, _gpgme_data_append_string,
  _gpgme_data_append_string_for_xml, _gpgme_data_append_for_xml,
  _gpgme_data_append_percentstring_for_xml): Likewise.
(_gpgme_progress_status_handler): Change first arg to void *.
* progress.c (_gpgme_progress_status_handler): Likewise.
* conversion.c: Do not include <string.h>, <errno.h>, <ctype.h>,
  and <sys/types.h>, but <string.h>.
(_gpgme_data_append): Remove function.
(_gpgme_data_append_string): Likewise.
(_gpgme_data_append_for_xml): Likewise.
(_gpgme_data_append_string_for_xml): Likewise.
* data-mem.c (_gpgme_data_get_as_string): Likewise.
(_gpgme_data_release_and_return_string): Likewise.
* gpgme.c (gpgme_get_op_info): Likewise.
(_gpgme_set_op_info): Likewise.

* gpgme.h (struct _gpgme_key): New structure.
  (GpgmeKey): Define using _gpgme_key.
  (struct _gpgme_subkey): New structure.
  (GpgmeSubKey): New type.
  (struct _gpgme_key_sig): New structure.
  (GpgmeKeySig): New type.
  (struct _gpgme_user_id): New structure.
  (GpgmeUserID): New type.
  (struct _gpgme_op_keylist_result): New structure.
  (GpgmeKeyListResult): New type.
  (gpgme_op_keylist_result): New function.
  (gpgme_key_get_as_xml): Remove prototype.
* context.h (struct gpgme_context_s): Remove members tmp_key,
  tmp_uid, key_cond and key_queue.
  (struct key_queue_item_s): Remove structure.
  (struct user_id_s): Remove structure.
  (struct gpgme_recipients_s): Replace with simple
  GpgmeUserID list.
* gpgme.c (gpgme_release): Do not release CTX->tmp_key.
* ops.h (_gpgme_key_add_subkey, _gpgme_key_append_name,
  _gpgme_key_add_sig, _gpgme_trust_item_new): New prototypes.
* rungpg.c (command_cb): Return GpgmeError instead int.
  New variable ERR. Use it to hold return value of cmd handler.
  (gpg_delete): Access fingerprint of key directly.
  (append_args_from_signers): Likewise.
  (gpg_edit): Likewise.
  (append_args_from_recipients): Use GpgmeUserID for recipient list.
* engine-gpgsm.c: Do not include "key.h".
  (gpgsm_delete): Access fingerprint of key directly.
  (gpgsm_sign): Likewise.
  (set_recipients): Use GpgmeUserID for recipients. Invert invalid
  user ID flag.
* key.h: File removed.
* key.c: Completely reworked to use exposed GpgmeKey data types.
* keylist.c: Likewise.
* recipient.c: Completely reworked to use GpgmeUserID.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_get_key): Remove force_update argument.
* key-cache.c: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove key-cache.c.
* ops.h (_gpgme_key_cache_add, _gpgme_key_cache_get): Remove
  prototypes.
* keylist.c (_gpgme_op_keylist_event_cb): Don't call
  _gpgme_key_cache_add.
  (gpgme_get_key): New function.
* verify.c (gpgme_get_sig_key): Remove last argument to
  gpgme_get_key invocation.

* gpgme.h (struct _gpgme_trust_item): New structure.
  (GpgmeTrustItem): New type.
  (gpgme_trust_item_ref, gpgme_trust_item_unref): New prototypes.
* context.h (struct trust_queue_item_s): Remove structure.
  (struct gpgme_context_s): Remove trust_queue member.
* Makefile.am (libgpgme_la_SOURCES): Add trust-item.c.
* trust-item.c: New file.
* trustlist.c: Do not include <stdio.h> or <time.h>, but
  "gpgme.h".
  (struct trust_queue_item_s): Change to new type op_data_t.
  (trust_status_handler): Change first argument to void *
  (trust_colon_handler): Likewise.
  (_gpgme_op_trustlist_event_cb): Use op_data_t type.
  (gpgme_op_trustlist_start): Use op_data_t and rework error
  handling.
  (gpgme_op_trustlist_next): Use op_data_t.
  (gpgme_trust_item_release): Remove function.
  (gpgme_trust_item_get_string_attr): Likewise.
  (gpgme_trust_item_get_int_attr): Likewise.
* verify.c (calc_sig_summary): Do not set GPGME_SIGSUM_SYS_ERROR for bad signatures.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* context.h: Remove OPDATA_VERIFY_COLLECTING.
  (struct gpgme_context_s): Remove member notation.
* gpgme.h: Make enum for GPGME_KEYLIST_MODE_\* values.

* gpgme.h (struct _gpgme_sig_notation): New structure.
  (GpgmeSigNotation): New type.
* gpgme.h (struct _gpgme_signature): New structure.
  (GpgmeSignature): New type.
* gpgme.h (struct _gpgme_op_verify_result): New structure.
  (GpgmeVerifyResult): New type.
* ops.h (_gpgme_op_verify_init_result): New prototype.
  (_gpgme_verify_status_handler): Change first argument to void *.
* util.h (_gpgme_decode_percent_string, _gpgme_map_gnupg_error):
  New prototypes.
* conversion.c (_gpgme_decode_percent_string): New function.
  (gnupg_errors): New static global.
  (_gpgme_map_gnupg_error): New function.
* gpgme.c (gpgme_release): Don't release CTX->notation.
  (gpgme_get_notation): Remove function.
* decrypt-verify.c (_gpgme_op_decrypt_verify_start): Call
  _gpgme_op_verify_init_result.
* verify.c: Do not include <stdio.h>, <assert.h> and "key.h", but
do include "gpgme.h".
* (struct verify_result): Replace with ... 
  (op_data_t): ... this type.
  (release_verify_result): Remove function.
  (release_op_data): New function.
  (is_token): Remove function.
  (skip_token): Remove function.
  (copy_token): Remove function.
  (gpgme_op_verify_result): New function.
  (calc_sig_summary): Rewritten.
  (finish_sig): Remove function.
  (parse_new_sig): New function.
  (parse_valid_sig): New function.
  (parse_notation): New function.
  (parse_trust): New function.
  (parse_error): New function.
  (_gpgme_verify_status_handler): Rewritten. Change first argument
to void *.
(_gpgme_op_verify_start): Rework error handling. Call
_gpgme_op_verify_init_result.
(gpgme_op_verify): Do not release or clear CTX->notation.
(gpgme_get_sig_status): Rewritten.
(gpgme_get_sig_string_attr): Likewise.
(gpgme_get_sig_ulong_attr): Likewise.
(gpgme_get_sig_key): Likewise.

* gpgme.h (struct _gpgme_op_decrypt_result): New structure.
(GpgmeDecryptResult): New type.
(gpgme_op_decrypt_result): New prototype.
* ops.h (_gpgme_op_decrypt_init_result): New prototype.
(_gpgme_decrypt_status_handler): Fix prototype.
(_gpgme_decrypt_start): Remove prototype.
* decrypt-verify.c: Do not include <stdio.h>, <stdlib.h>,
<string.h> and <assert.h>, "util.h" and "context.h", but
"gpgme.h".
(decrypt_verify_status_handler): Change first argument to void *
and rework error handling.
(_gpgme_op_decrypt_verify_start): New function.
(gpgme_op_decrypt_verify_start): Rewrite using
_gpgme_op_decrypt_verify_start.
(gpgme_op_decrypt_verify): Likewise.
* decrypt.c: Include <string.h>, "gpgme.h" and "util.h".
(struct decrypt_result): Change to typedef op_data_t, rewritten.
(is_token): Remove function.
(release_op_data): New function.
(skip_token): Remove function.
(gpgme_op_decrypt_result): New function.
(_gpgme_decrypt_status_handler): Change first argument to void *
Rework error handling.
(_gpgme_decrypt_start): Rename to ...
(decrypt_start): ... this. Call _gpgme_op_decrypt_init_result.
(_gpgme_op_decrypt_init_result): New function.
(gpgme_op_decrypt_start): Use decrypt_start.
(gpgme_op_decrypt): Likewise.

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* encrypt-sign.c: Do not include <stddef.h>, <stdio.h>,
<stdlib.h>, <string.h>, <assert.h> and "util.h", but "gpgme.h".
(_gpgme_op_encrypt_sign_start): Rename to ...
(encrypt_sign_start): ... this.
(gpgme_op_encrypt_sign_start): Use encrypt_sign_start, not
_gpgme_op_encrypt_sign_start.
(gpgme_op_encrypt_sign): Likewise.

* gpgme.h (GpgmeEncryptResult): New data type.
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(gpgme_op_encrypt_result): New prototype.
* ops.h (_gpgme_op_encrypt_init_result): New prototype.
(_gpgme_op_encrypt_status_handler): Fix prototype.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Call
_gpgme_op_encrypt_init_result.
* encrypt.c: Do not include <stdio.h>, <assert.h>, "util.h" and "wait.h". Include <errno.h> and "gpgme.h".
(SKIP_TOKEN_OR_RETURN): Remove macro.
(struct encrypt_result): Rename to ...
(op_data_t): ... new data type. Rewrite for user result data.
(append_xml_encinfo): Remove function.
(release_op_data): New function.
(gpgme_op_encrypt_result): New function.
(_gpgme_op_encrypt_status_handler): Change first argument to void *.
Rewrite result parsing.
(_gpgme_op_encrypt_sym_status_handler): Change first argument to void *.
(_gpgme_op_encrypt_init_result): New function.
(_gpgme_op_encrypt_start): Rename to ...
(encrypt_start): ... this.
(gpgme_op_encrypt_start): Use encrypt_start, not gpgme_op_encrypt_start.
(gpgme_op_encrypt): Likewise.

* gpgme.h (GpgmePubKeyAlgo, GpgmeHashAlgo, GpgmeInvalidUserID, GpgmeNewSignature, GpgmeSignResult): New data types.
(gpgme_op_sign_result, gpgme_pubkey_algo_name, gpgme_hash_algo_name): New prototypes.
* gpgme.c (gpgme_pubkey_algo_name): New function.
(gpgme_hash_algo_name): Likewise.
* ops.h (_gpgme_parse_inv_userid, _gpgme_op_sign_init_result): New
prototype.
(_gpgme_op_sign_status_handler): Fix prototype.
* op-support.c: Include <errno.h> and <string.h>.
(_gpgme_parse_inv_userid): New function.
* sign.c: Include <errno.h> and "gpgme.h", but not <stdio.h>, <assert.h> and "util.h".
(SKIP_TOKEN_OR_RETURN): Remove macro.
(struct sign_result): Change to op_data_t type and rework it.
(release_sign_result): Rename to ...
(release_op_data): ... this and rewrite it.
(append_xml_info): Remove function.
(gpgme_op_sign_result): New function.
(parse_sig_created): New function.
(_gpgme_sign_status_handler): Change first argument to void *.
Rewrite the function to use the new result structure and functions.
(_gpgme_op_sign_init_result): New function.
(_gpgme_op_sign_start): Rename to ...
(sign_start): ... this. Call _gpgme_op_sign_init_result.
(gpgme_op_sign_start): Use sign_start instead _gpgme_op_sign_start.
(gpgme_op_sign): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Call
  _gpgme_op_sign_init_result.

* delete.c: Include <errno.h> and "gpgme.h", but not "util.h" or
  "key.h".
(enum delete_problem): Move into function delete_status_handler.
(delete_status_handler): Change first argument to void *. Parse
  delete problem with strtol instead atoi. Return better error
  values.
(_gpgme_op_delete_start): Rename to ...
(delete_start): ... this. Rework error handling.
(gpgme_op_delete_start): Use delete_start instead
  _gpgme_op_delete_start.
(gpgme_op_delete): Likewise.
* gpgme.h (GpgmeDataType): Removed.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Change GPGME_IMPORT_PRIVATE to GPGME_IMPORT_SECRET.
* import.c (parse_import_res): Parse unchanged field.

* gpgme.h: New enum for GPGME_IMPORT_NEW, GPGME_IMPORT_UID,
  GPGME_IMPORT_SIG, GPGME_IMPORT_SUBKEY, GPGME_IMPORT_PRIVATE.
(GpgmeError): GPGME_Unknown_Reason, GPGME_Not_Found,
  GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
  GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
  GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
  GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
  GPGME_UnsupportedAlgorithmException, GPGME_Sig_Expired,
  GPGME_Bad_Signature, GPGME_No_Public_Key added as new error codes.
(struct _gpgme_import_status): New structure.
(GpgmeImportStatus): New type.
(struct _gpgme_op_import_result): New structure.
(GpgmeImportResult): New type.
(gpgme_op_import_result): New function.
* import.c: Include <errno.h> and "gpgme.h", but not "util.h".
(struct import_result): Change to type op_data_t.
(release_import_result): Rename to ...
(release_op_data): ... this.
(append_xml_impinfo): Function removed.
(gpgme_op_import_result): New function.
(parse_import): New function.
(parse_import_res): Likewise.
(import_status_handler): Change first argument to void *. Rewrite
  to use new functions.
(_gpgme_op_import_start): Rework error handling.

* edit.c: Do not include <assert.h>, "util.h", but "gpgme.h".
(edit_resut): Change to typedef for op_data_t.
(edit_status_handler): Change first argument to void *.
Rework error handling.
(command_handler): Rework error handling.
(_gpgme_op_edit_start): Rename to ...
(edit_start): ... this. Rework error handling.
(gpgme_op_edit_start): Rewrite using edit_start.
(gpgme_op_edit): Likewise.

* ops.h (_gpgme_passphrase_start): Remove prototype.
* passphrase.c: Do not include <assert.h>, "util.h" or "debug.h", but "gpgme.h".
(struct passphrase_result): Change to typedef for op_data_t.
(release_passphrase_result): Rename to release_op_data.
(_gpgme_passphrase_status_handler): Change first argument to void *.
Use new op_data_t type.
(_gpgme_passphrase_command_handler): Use new op_data_t type.
(_gpgme_passphrase_start): Remove function.
* decrypt.c (_gpgme_decrypt_start): Rewrite error handling. Do not call _gpgme_passphrase_start, but install command handler.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.

* context.h (struct gpgme_context_s): Remove member initialized, use_cms and help_data_1. Add member protocol. Make use_armor and use_textmode bit flags. Make keylist_mode, include_certs, signers_len and signers_size unsigned.
* gpgme.c (gpgme_new): Initialize CTX->protocol.
(gpgme_set_protocol): Do not check CTX. Use CTX->protocol.
(gpgme_get_protocol): Likewise.
(gpgme_release): Do not release CTX->help_data_1.
* op-support.c (_gpgme_op_reset): Use CTX->protocol.

* wait-private.c (_gpgme_wait_private_event_cb): Remove variable CTX.

* data.c: Do not include <assert.h>, but "gpgme.h".
(_gpgme_data_inbound_handler): Expand _gpgme_data_append, because it will go. Do not assert DH.
(_gpgme_data_outbound_handler): Do not assert DH.

* export.c: Do not include <stdlib.h>, "debug.h" and "util.h", but "gpgme.h".
(export_status_handler): Change type of first argument to void *.
(_gpgme_op_export_start): Rename to ...
(export_start): ... this. Rework error handling.
(gpgme_op_export_start): Rewritten to use export_start instead
_gpgme_op_export_start.
(gpgme_op_export): Likewise.

* gpgme.h (GpgmeError): Add GPGME_Busy, GPGME_No_Request.
(GPGME_No_Recipients, GPGME_Invalid_Recipient,
GPGME_No_Passphrase): New macros.

* key.c (gpgme_key_get_string_attr): Fix validity attribute.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (struct _gpgme_op_genkey_result): New structure.
(GpgmeGenKeyResult): New type.
(gpgme_op_genkey): Drop last argument.
(gpgme_op_genkey_result): New function.
* genkey.c: Do not include "util.h", but "gpgme.h".
(struct genkey_result): Replace with ...
(op_data_t): ... this new type.
(release_genkey_result): Replace with ...
(release_op_data): ... this new function.
(gpgme_op_genkey_result): New function.
(genkey_status_handler): Rewritten using new op_data_t type.
(get_key_parameter): New function.
(_gpgme_op_genkey_start): Renamed to
(genkey_start): ... this and rewritten.
(gpgme_op_genkey_start): Use genkey_start instead
_gpgme_op_genkey_start.
(gpgme_op_genkey): Rewritten. Remove FPR argument.

* context.h (struct gpgme_context_s): Remove member verbosity.
* gpgme.c (gpgme_new): Do not set member verbosity.
* engine.h (_gpgme_engine_set_verbosity): Remove prototype.
* engine.c (_gpgme_engine_set_verbosity): Remove function.
* engine-backend.h (struct engine_ops): Remove set_verbosity.
* engine-gpgsm.c (_gpgme_engine_ops_gpgsm): Remove set_verbosity member.
* runpg.c (_gpgme_engine_ops_pgp): Likewise.
(gpg_set_verbosity): Remove function.
* decrypt.c (_gpgme_decrypt_start): Don't call
_gpgme_engine_set_verbosity.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.
  (gpgme_op_keylist_ext_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* Makefile.am (libgpgme_la_SOURCES): Add key-cache.c.
* key.c (key_cache_initialized, key_cache_size,
  key_cache_max_chain_length, ): Removed.
  (struct key_cache_item_s, key_cache_lock, key_cache,
  key_cache_unused_items, hash_key, _gpgme_key_cache_add,
  _gpgme_key_cache_get, gpgme_get_key): Moved to ...
  * key-cache.c: ... here. New file.
* key.h (_gpgme_key_cache_init): Remove prototypes.
  (_gpgme_key_cache_add, _gpgme_key_cache_get): Move to ...
  * ops.h: ... here.
* version.c: Do not include "key.h".
  (do_subsystem_inits): Do not call _gpgme_key_cache_init.

* mkstatus: Strip trailing comma.
* gpgme.h (GpgmeStatus): Pretty print.

* gpgme.h (GpgmeError): Rename GPGME_No_Passphrase to GPGME_Bad_Passphrase.
* passphrase.c (_gpgme_passphrase_status_handler): Use
  GPGME_Bad_Passphrase instead GPGME_No_Passphrase.

* gpgme.h (GpgmeError): Rename GPGME_No_Recipients to
  GPGME_No_UserID and GPGME_Invalid_Recipient to
  GPGME_Invalid_UserId.
* encrypt.c (_gpgme_encrypt_status_handler): Use GPGME_No_UserId
  instead GPGME_No_Recipients and GPGME_Invalid_UserId instead
  GPGME_Invalid_Recipient.
  (_gpgme_op_encrypt_start): Likewise.

* gpgme.h (GpgmeError): Remove GPGME_Busy and GPGME_No_Request.
* wait-user.c (_gpgme_wait_user_event_cb): Don't clear CTX->pending.
* wait-private.c (_gpgme_wait_private_event_cb): Likewise.
* wait-global.c (gpgme_wait): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.
  (gpgme_get_sig_status): Don't check pending flag.
  (gpgme_get_sig_string_attr): Likewise.
  (gpgme_get_sig_ulong_attr): Likewise.
  (gpgme_get_sig_key): Likewise.
* op-support.c (_gpgme_op_reset): Likewise.
* trustlist.c (gpgme_op_trustlist_start): Don't clear pending flag.
  (gpgme_op_trustlist_next): Don't check or clear pending flag.
  (gpgme_op_trustlist_end): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* context.h (struct gpgme_context_s): Remove member PENDING.
* decrypt.c (_gpgme_decrypt_start): Likewise.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* key.c (gpgme_get_key): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.
  (gpgme_op_keylist_ext_start): Likewise.
  (gpgme_op_keylist_next): Likewise.
  (gpgme_op_keylist_end): Likewise.
* data-compat.c (gpgme_error_to_errno): Don’t convert EBUSY.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GpgmePassphraseCb): Change type to return GpgmeError,
  and add argument for returning the result string.
  (gpgme_cancel): Remove prototype.
* gpgme.c (gpgme_cancel): Remove function.
* context.h (struct gpgme_context_s): Remove member cancel.
* passphrase.c (_gpgme_passphrase_command_handler): Call the
  passphrase callback in the new way.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* edit.c (_gpgme_edit_status_handler): Call the progress status
  handler.

2003-02-05 Marcus Brinkmann <marcus@g10code.de>

* wait-user.c (_gpgme_wait_user_remove_io_cb): Move check for no
  I/O handlers left to ...
  (_gpgme_user_io_cb_handler): ... here.

2003-02-04 Marcus Brinkmann <marcus@g10code.de>

* trustlist.c (trustlist_colon_handler): Release ITEM if name
  could not be allocated.
  (gpgme_trust_item_release): Only release name if it is allocated.
  Reported by Marc Mutz <Marc.Mutz@uni-bielefeld.de>.

2003-02-04 Marcus Brinkmann <marcus@g10code.de>

* runpgp.c (read_status): If he status handler returns an error,
  return it.
(status_handler): If read_status fails, just return the error.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (start): Handle all errors, not only most of
  them.
(xtoi_1, xtoi_2): Remove macro.
(status_handler): Replace use of xtoi_2 with _gpgme_hextobyte.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Replace
  ASSUAN_Bad_Certificate_Path with ASSUAN_Bad_Certificate_Chain.
(gpgsm_new): Use assuan_pipe_connect instead assuan_pipe_connect2.

* util.h (DIMof): Remove macro.

* ops.h (_gpgme_op_event_cb, _gpgme_op_event_cb_user,
  _gpgme_data_unread): Prototypes removed.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* types.h: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove types.h.
* io.h (struct spawn_fd_item_s): Do not include "types.h".
* key.h: Likewise.
* context.h: Likewise.
* engine-gpgsm.h: Likewise.
* engine.h: Include "gpgme.h" instead "types.h". Add prototypes
  for EngineStatusHandler, EngineColonLineHandler and
  EngineCommandHandler.
(_gpgme_engine_set_status_handler): Change parameter type from
GpgmeStatusHandler to EngineStatusHandler.
(_gpgme_engine_set_command_handler): Change parameter type from
GpgmeCommandHandler to EngineCommandHandler.
(_gpgme_engine_set_colon_line_handler): Change parameter type from
GpgmeColonLineHandler to EngineColonLineHandler.
* engine-backend.h: Include "engine.h" instead "types.h".
(struct engine_ops): Change Gpgme*Handler parameters in members
set_command_handler, set_colon_line_handler and set_status_handler
to Engine*Handler.
* engine.c (_gpgme_engine_set_status_handler): Change parameter
type from GpgmeStatusHandler to EngineStatusHandler.
(_gpgme_engine_set_command_handler): Change parameter type from
GpgmeCommandHandler to EngineCommandHandler.
(_gpgme_engine_set_colon_line_handler): Change parameter type from
GpgmeColonLineHandler to EngineColonLineHandler.
* rungpg.c (struct gpg_object_s): Change type of member status.fnc
from GpgmeStatusHandler to EngineStatusHandler. Change type of member colon.fnc from GpgmeColonLineHandler to EngineColonLineHandler. Change type of member cmd.fnc from GpgmeCommandHandler to EngineCommandHandler.

* engine-gpgsm.c (struct gpgsm_object_s): Likewise.
* rungpg.c (gpg_set_status_handler): Change parameter type from GpgmeStatusHandler to EngineStatusHandler.
* engine-gpgsm.c (gpgsm_set_status_handler): Likewise.
* rungpg.c (assuan_simple_command): Likewise.
* rungpg.c (gpg_set_colon_line_handler): Change parameter type from GpgmeColonLineHandler to EngineColonLineHandler.
* engine-gpgsm.c (gpgsm_set_colon_line_handler): Likewise.
* rungpg.c (gpg_set_command_handler): Change parameter type from GpgmeCommandHandler to EngineCommandHandler.

* engine-gpgsm.c (status_handler): Do not close status fd at end of function.

* ops.h (_gpgme_op_data_lookup): Add prototype.
* op-support.c: Include <stdlib.h>.
  (_gpgme_op_data_lookup): New function.
* decrypt.c (_gpgme_release_decrypt_result): Function removed.
  (struct decrypt_result_s): Rename to ...
  (struct decrypt_result): ... this.
  (DecryptResult): New type.
  (_gpgme_decrypt_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* sign.c (_gpgme_release_sign_result): Function removed.
  (release_sign_result): New function.
  (struct sign_result_s): Rename to ...
  (struct sign_result): ... this.
  (SignResult): New type.
  (_gpgme_sign_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* encrypt.c (struct encrypt_result_s): Rename to ...
  (struct encrypt_result): ... this.
  (_gpgme_release_encrypt_result): Function removed.
  (release_encrypt_result): New function.
  (_gpgme_encrypt_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* verify.c (struct verify_result_s): Rename to ...
  (struct verify_result): ... this. Remove member next.
  (VerifyResult): New type.
  (_gpgme_release_verify_result): Function removed.
  (release_verify_result): New function.
(finish_sig): Change first argument to type VerifyResult. Diddle the type of the op_data structure.
(add_notation): Change first argument to type VerifyResult.
(_gpgme_verify_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* passphrase.c (struct passphrase_result_s): Rename to ...
(struct passphrase_result): ... this. Remove member next.
(PassphraseResult): New type.
(_gpgme_release_passphrase_result): Function removed.
(release_passphrase_result): New function.
(_gpgme_passphrase_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
(_gpgme_passphrase_command_handler): Likewise.
* keylist.c (struct keylist_result_s): Rename to ...
(struct keylist_result): ... this. Remove member next.
(KeylistResult): New type.
(_gpgme_release_keylist_result): Function removed.
(release_keylist_result): New function.
(keylist_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
* edit.c (struct edit_result_s): Rename to ...
(struct edit_result): ... this. Remove member next.
(EditResult): New type.
(_gpgme_release_edit_result): Function removed.
(release_edit_result): New function.
(edit_status_handler): Don't use test_and_allocate_result, but use _gpgme_op_data_lookup to retrieve result data object.
(command_handler): Likewise.
* types.h (DecryptResult, SignResult, EncryptResult,
PassphraseResult, ImportResult, DeleteResult, GenKeyResult,
KeylistResult, EditResult): Types removed.
* ops.h: Don't include "types.h", but "gpgme.h" and "context.h".
(test_and_allocate_result): Remove macro.
(_gpgme_release_decrypt_result): Remove prototype.
(_gpgme_decrypt_result): Remove prototype.
(_gpgme_release_sign_result): Remove prototype.
(_gpgme_release_encrypt_result): Remove prototype.
(_gpgme_release_passphrase_result): Remove prototype.
(_gpgme_release_import_result): Remove prototype.
(_gpgme_release_delete_result): Remove prototype.
(_gpgme_release_genkey_result): Remove prototype.
(_gpgme_release_keylist_result): Remove prototype.
(_gpgme_release_edit_result): Remove prototype.
(_gpgme_release_verify_result): Remove prototype.
* gpgme.c (_gpgme_release_result): Rewritten.
* context.h (enum ctx_op_data_type): New enum.
  (struct ctx_op_data): New structure.
  (struct gpgme_context_s): Replace the member result with a member op_data.
  (fail_on_pending_request): Remove macro.
* op-support.c (_gpgme_op_reset): Expand macro
  fail_on_pending_request.
* util.h: Don't include "types.h" or "debug.h", but include "gpgme.h".

2003-01-19 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_engine_ops_gpg): Remove gpg_start.
  (gpg_start): Rename to ...
  (start): ... this function. Change arguments to GpgObject.
  (gpg_decrypt): Call start.
  (gpg_edit): Likewise.
  (gpg_encrypt): Likewise.
  (gpg_encrypt_sign): Likewise.
  (gpg_export): Likewise.
  (gpg_import): Likewise.
  (gpg_keylist): Likewise.
  (gpg_keylist_ext): Likewise.
  (gpg_trustlist): Likewise.
  (gpg_verify): Likewise.

* engine-gpgsm.c (_gpgme_engine_ops_encrypt): Remove gpgsm_start.
  (gpgsm_start): Rename to ...
  (struct gpgsm_object_s): Remove member command.
  (gpgsm_release): Don't free command.
  (start): ... this function. Change arguments to GpgsmObject and const char *.
  (gpgsm_decrypt): Call start.
  (gpgsm_delete): Likewise.
  (gpgsm_encrypt): Likewise.
  (gpgsm_export): Likewise.
  (gpgsm_genkey): Likewise.
  (gpgsm_import): Likewise.
  (gpgsm_keylist): Likewise.
  (gpgsm_keylist_ext): Likewise.
  (gpgsm_verify): Likewise.

* decrypt.c (_gpgme_decrypt_start): Don't call
  _gpgme_engine_start.
* delete.c (_gpgme_op_delete_start): Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start):
* encrypt-sign.c (_gpgme_op_encrypt_sign_start):
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* keylist.c (gpgme_op_keylist_ext_start): Likewise.
   (gpgme_op_keylist_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* trustlist.c (gpgme_op_trustlist_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* engine-backend.h (struct engine_ops): Remove member start.

* engine.h (_gpgme_engine_start): Remove prototype.
* engine.c (_gpgme_engine_start): Remove function.

2003-01-19 Miguel Coca <mcoca@gnu.org>

* w32-io.c (_gpgme_io_select): Add missing argument in calls to DEBUG_BEGIN.
* w32-util.c: Include "sema.h".
   (find_program_in_registry): Change DEBUG1 to DEBUG2, fixes compilation error.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* types.h: Remove byte and ulong types.
* util.h (_gpgme_hextobyte): Change prototype to unsigned char instead byte.
* conversion.c (_gpgme_hextobyte): Change argument to unsigned char instead byte.
  (_gpgme_decode_c_string): Likewise, and beautify. Also support a few more escaped characters. Be more strict about buffer size.
  (_gpgme_data_append_percentstring_for_xml): Change type of SRC, BUF and DST to unsigned char instead byte.
* progress.c (_gpgme_progress_status_handler): Use unsigned char instead byte.
* debug.c (trim_spaces): Likewise.

* util.h (mk_error): Remove macro.
* conversion.c, data.c, data-compat.c, decrypt.c, delete.c, edit.c, encrypt.c, encrypt-sign.c, engine.c, engine-gpgsm.c, export.c, genkey.c, gpgme.c, import.c, key.c, keylist.c, passphrase.c, progress.c, recipient.c, rungpg.c, sign.c, signers.c, trustlist.c, verify.c, wait.c, wait-global.c, wait-private (literally everywhere): Expand the mk_error macro.

* context.h (wait_on_request_or_fail): Remove macro.

* context.h (gpgme_context_s): Remove member ERROR.
* types.h (GpgmeStatusHandler): Change return type to GpgmeError.
  (GpgmeCommandHandler): Change return type to GpgmeError and add new argument RESULT.
* gpgme.h (GpgmeIOCb): Change return type to GpgmeError.
  (GpgmeEventIO): New event GPGME_EVENT_START.
  (GpgmeIdleFunc): Remove type.
  (gpgme_register_idle): Remove prototype.
* data.c: Include <assert.h>.
  (_gpgme_data_inbound_handler): Change return type to GpgmeError.
  Return any error instead ignoring it, don't close file descriptor on error.
  (_gpgme_data_outbound_handler): Likewise.
* decrypt.c: Do not include <stdio.h>, <string.h> and <assert.h>.
  (_gpgme_decrypt_status_handler): Change return type to GpgmeError.
  Return error instead setting ctx->error. Return success at end of function.
  (gpgme_op_decrypt): Don't work around the old kludge anymore.
* decrypt-verify.c (decrypt_verify_status_handler): Change return type to GpgmeError. Return possible errors.
* delete.c: Do not include <stdio.h>, <string.h>, <time.h> and <assert.h>.
* edit.c: Do not include <stdio.h> and <string.h>.
  (_gpgme_edit_status_handler): Change type to GpgmeError, make static and rename to ...
  (edit_status_handler): ... this. Return error directly.
  (command_handler): Change return type to GpgmeError, add result argument. Return error directly.
* encrypt.c (status_handler_finish): Remove function.
  (_gpgme_encrypt_status_handler): Change return type to GpgmeError.
  Return error directly.
  (_gpgme_encrypt_sym_status_handler): Likewise.
* encrypt-sign.c (encrypt_sign_status_handler): Likewise.
* engine-gpgsm.c (close_notify_handler): Do not signal done event anymore.
  (status_handler): Change return type to GpgmeError. Diddle things around a bit to return errors directly.
  (start): Send start event.
* export.c: Do not include <stdio.h>, <string.h> and <assert.h>.
  (export_status_handler): Change return type to GpgmeError. Don't check ctx->error.
* genkey.c: Do not include <stdio.h> and <assert.h>.
  (genkey_status_handler): Change return type to GpgmeError. Don't check ctx->error. Return errors directly.
* gpgme.c (_gpgme_release_result): Do not initialize ctx->error.
  (_gpgme_op_event_cb): Function removed.
(._gpgme_op_event_cb_user): Likewise.
* import.c: Do not include <stdio.h>, <string.h> and <assert.h>.
(import_status_handler): Change return type to GpgmeError. Don’t check ctx->error.
* keylist.c (keylist_colon_handler, keylist_status_handler, finish_key):
  Change return type to GpgmeError, return error directly.
* Makefile (libgpgme_la_SOURCES): Add wait-global.c,
  wait-private.c and wait-user.c
* ops.h (test_and_allocate_result): Return error instead setting
  ctx->error.
(_gpgme_data_inbound_handler, _gpgme_data_outbound_handler,
_gpgme_verify_status_handler, _gpgme_decrypt_status_handler,
_gpgme_sign_status_handler, _gpgme_encrypt_status_handler,
_gpgme_passphrase_status_handler, _gpgme_progress_status_handler):
  Change return type to GpgmeError.
(_gpgme_passphrase_command_handler): Change return type to
GpgmeError and add new argument RESULT.
* op-support.c: Use new callback functions, and change private
data to ctx everywhere.
* passphrase.c (_gpgme_passphrase_status_handler): Change return
  type to GpgmeError, return error directly.
(_gpgme_passphrase_command_handler): Change return type to
GpgmeError, add result argument. Return results accordingly.
* progress.c (_gpgme_progress_status_handler): Change return type to
GpgmeError, return errors directly.
* rungpg.c (status_handler): Change return type to GpgmeError.
  Return error directly.
(close_notify_handler): Don’t send done event.
(colon_line_handler): Change return type to GpgmeError, return
errors directly.
* rungpg.c (start): Send start event.
* sign.c (_gpgme_sign_status_handler): Change return type to
GpgmeError, return errors directly.
* trustlist.c (trustlist_status_handler): Change return type to
GpgmeError. Return 0.
(trustlist_colon_handler): Change return type GpgmeError. Return
errors directly.
* verify.c (add_notation): Change return type to GpgmeError,
  return errors directly.
(_gpgme_verify_status_handler): Likewise.
* wait.h (struct fd_table): Remove lock member.
(struct wait_item_s): Moved here from wait.c.
(struct tag): New structure.
(_gpgme_wait_event_cb): Remove prototype.
(_gpgme_wait_private_event_cb, _gpgme_wait_global_event_cb,
_gpgme_wait_user_add_io_cb, _gpgme_wait_user_remove_io_cb,
_gpgme_wait_user_event_io_cb): New prototypes.
* wait.c: Don’t include <stdio.h>.
(ftd_global, ctx_done_list, ctx_done_list_size, ctx_done_list_length, ctx_done_list_lock, idle_function): Remove global variable.
(gpgme_registerIdle, do_select, _gpgme_wait_event_cb): Remove function.
(gpgme_wait): Move to file wait-global.c.
(_gpgme_add_io_cb): Take ctx as private argument, initialize ctx member in wait item and tag.
(_gpgme_remove_io_cb): Take ctx from tag. Don't use FDT lock.
(_gpgme_wait_one, _gpgme_wait_on_condition): Move to wait-private.c.
(gpgme_fd_table_init): Don't initialize FDT->lock.
(gpgme_fd_table_deinit): Don't destroy FDT->lock.
(_gpgme_fd_table_put): Make static and rename to ...
(fd_table_put): ... this function. Don't use FDT->lock.
(struct wait_item_s): Move to wait.h.
*wait-global.c: New file.
*wait-private.c: New file.
*wait-user.c: New file.

*key.c (gpgme_key_sig_get_string_attr): Use validity_to_string instead of trust_to_string to calculate validity.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* types.h (EngineObject): Move typedef to ...
* engine.h: ... here.
* types.h (GpgObject): Move typedef to ...
* rungpg.c: ... here.
* types.h (GpgsmObject): Move typedef to ...
* engine-gpgsm.c: ... here.

*util.h (return_if_fail, return_null_if_fail, return_val_if_fail): Remove macro.
* gpgme.c (gpgme_cancel): Don't use return_if_fail.
* key.c (gpgme_key_ref): Likewise.
* signers.c (gpgme_signers_enum): Likewise.
(gpgme_signers_clear): Likewise.

* engine-backend.h (struct engine_ops): Rename get_path to get_file_name.
* gpgme.h (struct _gpgme_engine_info): Rename member path to file_name.
* version.c: Do not include <stdio.h>, <stdlib.h>, context.h and util.h. Other clean ups.
(parse_version_number): Protect more seriously against overflow.
(gpgme_get_engine_info): Move to ...
* engine.c (gpgme_get_engine_info): ... here.
  (_gpgme_engine_get_info): Function removed.
  (_gpgme_engine_get_path): Make static and rename to ...
  (engine_get_file_name): .. this.
  (_gpgme_engine_get_version): Make static and rename to ...
  (engine_get_version): ... this.
  (_gpgme_engine_get_req_version): Make static and rename to ...
  (engine_get_req_version): ... this.
* engine.h (_gpgme_engine_get_path, _gpgme_engine_get_version,
  _gpgme_engine_req_version, _gpgme_engine_get_info.): Remove
prototypes.

* gpgme.h (enum GpgmeProtocol): Remove GPGME_PROTOCOL_AUTO.
* gpgme.c (gpgme_set_protocol): Don't handle GPGME_PROTOCOL_AUTO.
  (gpgme_protocol_name): New function.

* engine-backend.h (struct engine_ops): New member
  get_req_version, remove member check_version.
* engine.h (_gpgme_Engine_get_version): New prototype.
* rungpg.c (gpg_get_req_version): New function.
  (gpg_check_version): Function removed.
  (_gpgme_engine_ops_gpg): Add gpg_get_req_version, remove
  gpg_check_version.
* engine-gpgsm.c (gpgsm_get_req_version): New function.
  (gpgsm_check_version): Function removed.
  (_gpgme_engine_ops_gpgsm): Add gpgsm_get_req_version, remove
  gpgsm_check_version.
* engine.c: Include ops.h.
  (_gpgme_engine_get_req_version): New function.
  (gpgme_engine_check_version): Rewritten.
* version.c (gpgme_get_engine_info): Rewritten.
* gpgme.h (gpgme_engine_info): New structure.
  (GpgmeEngineInfo): New type.

2003-01-06 Werner Koch <wk@gnupg.org>

* keylist.c (set_mainkey_capability): Handle 'd' and 'D' used
  since gpg 1.3 to denote disabled keys.

2003-01-06 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c: Include <string.h>.
* engine.c: Likewise.

2003-01-06 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_DEPENDENCIES): Correct bug in last change.
2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_op_verify, gpgme_op_decrypt_verify): Drop R_STAT argument.
* decrypt-verify.c (gpgme_op_decrypt_verify): Drop R_STAT argument.
* verify.c (gpgme_op_verify): Drop R_STAT argument.
(_gpgme_intersect_stati): Function removed.
* ops.h (_gpgme_intersect_stati): Remove prototype.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* libgpgme.vers: New file.
* Makefile.am (EXTRA_DIST): Add libgpgme.vers.
(libgpgme_version_script_cmd): New variable.
(libgpgme_la_LDFLAGS): Add libgpgme_version_script_cmd here.
(libgpgme_la_DEPENDENCIES): New variable.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* key.c (gpgme_key_get_string_attr): Don’t accept GPGME_ATTR_IS_SECRET.
(ostrust_to_string): New function.
(gpgme_key_get_as_xml): Use it.
(validity_to_string): New function.
(gpgme_key_get_string_attr): Beautify using above functions.
(gpgme_key_get_ulong_attr): Likewise.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* data-mem.c (mem_release): Fix gcc warning.
* data-user.c (user_release): Likewise.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

* data.h (gpgme_data_release_cb): Change return type to void.
(gpgme_data_read_cb): Change return type to ssize_t.
* data.c (gpgme_data_read): Likewise.
* data-stream.c (stream_read): Likewise.
* data-fd.c (fd_read): Likewise.
* data-mem.c (mem_read): Likewise.
(mem_release): Change return type to void.
* data-user.c (user_read): Change return type to ssize_t.
(user_release): Change return type to void.
* data-compat.c (old_user_read): Change return type to ssize_t.
* gpgme.h (GpgmeDataReadCb): Likewise.
(gpgme_data_read): Likewise.
(GpgmeDataSeekCb): Change return type to off_t.
2002-12-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_get_key.
  * key.c (gpgme_get_key): New function.
  * verify.c (gpgme_get_sig_key): Rewrite using gpgme_get_key.

* gpgme.h: Add prototypes for new interfaces
  gpgme_key_sig_get_string_attr and gpgme_key_get_ulong_attr.
  (enum GpgmeAttr): New attribute GPGME_ATTR_SIG_CLASS.
* gpgme.c (gpgme_set_keylist_mode): Allow GPGME_KEYLIST_MODE_SIGS.
* key.h (struct certsig_s): New members ALGO, NAME_PART,
  EMAIL_PART, COMMENT_PART, NAME, SIG_STAT and SIG_CLASS.

* conversion.c (_gpgme_decode_c_string): Add new parameter LEN.
  Use that to determine if allocation is desired or not.
* util.h: Adjust prototype of _gpgme_decode_c_string.
* keylist.c (keylist_colon_handler): Adjust caller of
  _gpgme_decode_c_string.

* key.h (struct gpgme_key_s): New member last_uid.
* key.c (_gpgme_key_append_name): Rewritten using
  _gpgme_decode_c_string and the last_uid pointer.
  (my_isdigit): Macro removed.
  (ALLOC_CHUNK): Likewise.
* keylist.c (set_userid_flags): Use last_uid member of KEY.

* context.h (struct user_id_s): New member last_certsig.
* key.h: Add prototype for _gpgme_key_add_certsig.
* key.c (_gpgme_key_add_certsig): New function.
  (set_user_id_part): Move function before _gpgme_key_add_certsig.
  (parse_user_id): Change first argument to SRC, add new arguments
  NAME, EMAIL and COMMENT. Change code to use these arguments
  instead going through UID. Move function before
  _gpgme_add_certsig.
  (parse_x509_user_id): Likewise.
  (_gpgme_key_append_name): Adjust arguments to parse_x509_user_id
  and parse_user_id invocation.
  (one_certsig_as_xml): New function.
  (one_uid_as_xml): Print signatures.
* context.h (struct gpgme_context_s): New member TMP_UID.
* keylist.c (keylist_colon_handler): Rewritten, implement "sig"
  record entries.

* key.c (get_certsig): New function.
  (gpgme_key_sig_get_string_attr): Likewise.
  (gpgme_key_sig_get_ulong_attr): Likewise.

* keylist.c: Include <ctype.h>.
(my_isdigit): Macro removed.
(set_mainkey_trust_info): Use isdigit, not my_isdigit.
(set_userid_flags): Likewise.
(set_subkey_trust_info): Likewise.
(set_ownertrust): Likewise.
(finish_key): Move function up a bit and remove prototype.

* rungpg.c (gpg_keylist_ext): Correct precedence of signature listing mode.
(gpg_keylist_ext): Implement signature listing mode.

2002-11-25 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_,gpgme_gpg_spawn): Do not set parent fds to -1.
* posix-io.c (_,gpgme_io_spawn): Call _gpgme_io_close instead close for parent fds.
* w32-io.c (_,gpgme_io_spawn): Call _gpgme_io_close instead CloseHandle for parent fds.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h [MSC_VER]: Define ssize_t as long.

2002-11-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_,gpgme_gpgsm_new): Save the result of a first setlocale before doing another setlocale.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c: Some beautification.

* verify.c (_,gpgme_verify_status_handler): Treat GPGME_STATUS_UNEXPECTED like GPGME_STATUS_NODATA. Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* genkey.c: Only include <config.h> if [HAVE_CONFIG_H].
  (struct genkey_result_s): Add new member FPR.
  (_,gpgme_release_genkey_result): Free RESULT->fpr if set.
  (genkey_status_handler): Extract the fingerprint from the status line.
  (gpgme_op_genkey): Add new argument FPR and return the fingerprint in it.
* gpgme.h: Adjust prototype of gpgme_op_genkey.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>
* rungpg.c (gpg_keylist): Add --with-fingerprint to gpg invocation twice, to get fingerprints on subkeys. Suggested by Timo Schulz <twoaday@freakmail.de>.

(gpg_keylist_ext): Likewise.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

* import.c (append_xml_impinfo): Use
_gpgme_data_append_string_for_xml rather than
_gpgme_data_append_string for the field content.
Submitted by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-10-10 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h, engine-gpgsm.h: File removed.
* Makefile.am (gpgsm_components): New variable, set depending on
automake conditional HAVE_GPGSM.
(libgpgme_la_SOURCES): Add engine-backend.h, remove rungpg.h and
engine-gpgsm.h. Replace engine-gpgsm.c with $[gpgsm_components].
(status-table.h): Depend on gpgme.h, not rungpg.h.
* conversion.c: Include <stdlib.h>.
* engine-gpgsm.c: Do not set ENABLE_GPGSM here. Include
"engine-backend.h" instead "engine-gpgsm.h". Reorder some
functions and remove all function prototypes.
(_gpgme_gpgsm_get_version): Make static and rename to ...
(gpgsm_get_version): ... this.
(_gpgme_gpgsm_check_version): Make static and rename to ...
(gpgsm_check_version): ... this.
(_gpgme_gpgsm_new): Make static. Change argument type from
GpgsmObject * to void **. Call gpgsm_release instead
_gpgme_gpgsm_release.
(_gpgme_gpgsm_op_decrypt): Make static and rename to ...
(gpgsm_decrypt): ... this.
(_gpgme_gpgsm_op_delete): Make static and rename to ...
(gpgsm_decrypt): ... this.
(_gpgme_gpgsm_set_recipients): Make static and rename to ...
(gpgsm_set_recipients): ... this.
(_gpgme_gpgsm_op_encrypt): Make static and rename to ...
(gpgsm_encrypt): ... this.
(_gpgme_gpgsm_op_export): Make static and rename to ...
(gpgsm_export): ... this.
(_gpgme_gpgsm_op_genkey): Make static and rename to ...
(gpgsm_genkey): ... this.
(_gpgme_gpgsm_op_import): Make static and rename to ...
(gpgsm_import): ... this.
(_gpgme_gpgsm_op_keylist): Make static and rename to ...
(gpgsm_keylist): ... this.
(_gpgme_gpgsm_op_keylist_ext): Make static and rename to ...
(gpgsm_keylist_ext): ... this.
(_gpgme_gpgsm_op_sign): Make static and rename to ...
(gpgsm_sign): ... this.
(_gpgme_gpgsm_op_trustlist): Make static and rename to ...
(gpgsm_trustlist): ... this.
(_gpgme_gpgsm_op_verify): Make static and rename to ...
(gpgsm_verify): ... this.
(gpgsm_status_handler): Rename to ...
(status_handler): ... this.
(_gpgme_gpgsm_set_status_handler): Make static and rename to ...
(gpgsm_set_status_handler): ... this.
(_gpgme_gpgsm_set_colon_line_handler): Make static and rename to ...
(gpgsm_set_colon_line_handler): ... this.
(_gpgme_gpgsm_add_io_cb): Rename to ...
(add_io_cb): ... this.
(_gpgme_gpgsm_start): Make static and rename to ...
(gpgsm_start): ... this.
(_gpgme_gpgsm_set_io_cb): Make static and rename to ...
(gpgsm_set_io_cb): ... this.
(_gpgme_gpgsm_io_event): Make static and rename to ...
(gpgsm_io_event): ... this.
(struct _gpgme_engine_ops_gpgsm): New variable.

![ENABLE_GPGSM]: Removed.

* engine.c: Do not include <time.h>, <sys/types.h>, <string.h>, <assert.h>, "io.h", "rungpg.h" and "engine-gpgsm.h". Include <stdlib.h> and "engine-backend.h".
(struct engine_object_s): Rewritten.

(engine_ops): New variable.

* engine.c (_gpgme_engine_get_path, _gpgme_engine_get_version,
  _gpgme_engine_check_version, _gpgme_engine_new,
  _gpgme_engine_release, _gpgme_engine_set_verbosity,
  _gpgme_engine_set_status_handler,
  _gpgme_engine_set_command_handler,
  _gpgme_engine_set_colon_line_handler, _gpgme_engine_op_decrypt,
  _gpgme_engine_op_delete, _gpgme_engine_op_decrypt,
  _gpgme_engine_op_encrypt, _gpgme_engine_op_encrypt_sign,
  _gpgme_engine_op_export, _gpgme_engine_op_genkey,
  _gpgme_engine_op_import, _gpgme_engine_op_keylist,
  _gpgme_engine_op_keylist_ext, _gpgme_engine_op_sign,
  _gpgme_engine_op_trustlist, _gpgme_engine_op_verify,
  _gpgme_engine_start, _gpgme_engine_set_io_cbs,
  _gpgme_engine_io_event): Reimplement.

* engine.h: Fix a few comments and a variable name in a prototype.
* ops.h: Do not include "rungpg.h".

* passphrase.c: Include config.h only if [HAVE_CONFIG_H]. Do not include "rungpg.h".
* recipient.c: Likewise.
* signers.c: Likewise.
* version.c: Likewise.
* rungpg.c: Likewise. Include "engine-backend.h". Reorder functions and remove prototypes.

(_gpgme_gpg_get_version): Make static and rename to ...
(gpg_get_version): ... this.
(_gpgme_gpg_check_version): Make static and rename to ...
(gpg_check_version): ... this.
(_gpgme_gpg_new): Make static. Change argument type from GpgObject * to void **. Call gpg_release instead
_gpgme_gpg_release.
(_gpgme_gpg_op_decrypt): Make static and rename to ...
(gpg_check_decrypt): ... this.
(_gpgme_gpg_op_delete): Make static and rename to ...
(gpg_check_delete): ... this.
(_gpgme_gpg_set_recipients): Make static and rename to ...
(gpg_check_set_recipients): ... this.
(_gpgme_gpg_op_encrypt): Make static and rename to ...
(gpg_encrypt): ... this.
(_gpgme_gpg_op_export): Make static and rename to ...
(gpg_export): ... this.
(_gpgme_gpg_op_genkey): Make static and rename to ...
(gpg_genkey): ... this.
(_gpgme_gpg_op_import): Make static and rename to ...
(gpg_import): ... this.
(_gpgme_gpg_op_keylist): Make static and rename to ...
(gpg_keylist): ... this.
(_gpgme_gpg_op_keylist_ext): Make static and rename to ...
(gpg_keylist_ext): ... this.
(_gpgme_gpg_op_sign): Make static and rename to ...
(gpg_sign): ... this.
(_gpgme_gpg_op_trustlist): Make static and rename to ...
(gpg_trustlist): ... this.
(_gpgme_gpg_op_verify): Make static and rename to ...
(gpg_verify): ... this.
(_gpgme_gpg_set_status_handler): Make static and rename to ...
(gpg_set_status_handler): ... this.
(_gpgme_gpg_set_colon_line_handler): Make static and rename to ...
(gpg_set_colon_line_handler): ... this.
(gpgme_gpg_add_io_cb): Rename to ...
(add_io_cb): ... this.
(_gpgme_gpg_start): Make static and rename to ...
(gpg_start): ... this.
(_gpgme_gpg_set_io_cb): Make static and rename to ...
(gpg_set_io_cb): ... this.
(_gpgme_gpg_io_event): Make static and rename to ...
(gpg_io_event): ... this.
(struct _gpgme_engine_ops_gpg): New variable.

2002-10-10 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify) ![ENABLE_GPGSM]: Add missing argument.

2002-10-09 Marcus Brinkmann <marcus@g10code.de>

* data.h, data-user.c, data-stream.c, data-mem.c, data-fd.c, data-compat.c: New file. Really check them in this time, completes 2002-10-08 change.

* rungpg.h (GpgStatusHandler): Rename type to GpgmeStatusHandler and move to ...
  * types.h (GpgmeStatusHandler): ... here.
* rungpg.h (GpgColonLineHandler): Rename type to GpgmeColonLineHandler. and move to ...
  * types.h (GpgmeColonLineHandler): ... here.
* rungpg.h (GpgCommandHandler): Rename type to GpgmeCommandHandler. and move to ...
  * types.h (GpgmeCommandHandler): ... here.
* engine.h: Don't include "rungpg.h".
(_gpgme_engine_set_status_handler): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_engine_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_engine_set_command_handler): Change type of argument from GpgCommandHandler to GpgmeCommandHandler.
  * engine-gpgsm.h: Don't include "rungpg.h".
(_gpgme_gpgsm_set_status_handler): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpgsm_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.
* engine-gpgsm.c: Do not include "rungpg.h".
(struct gpgsm_object_s): Change type of status.fnc to GpgmeStatusHandler. Change type of colon.fnc to GpgmeColonLineHandler.
(gpgsm_assuan_simple_command): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpgsm_set_status_handler): Likewise.
(_gpgme_gpgsm_set_colon_line_handler): Change type of argument from GpgColonLineHandler to GpgmeColonLineHandler.
* rungpg.h (_gpgme_gpg_set_status_handler): Change type of argument from GpgStatusHandler to GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of
argument from GpgColonLineHandler to GpgmeColonLineHandler.
(_gpgme_gpg_set_command_handler): Change type of
argument from GpgCommandHandler to GpgmeCommandHandler.
* rungpg.c (struct gpg_object_s): Change type of status.fnc to
GpgmeStatusHandler. Change type of colon.fnc to
GpgmeColonLineHandler. Change type of cmd.fnc to
GpgmeCommandLineHandler.
(_gpgme_gpg_set_status_handler): Change type of argument FNC to
GpgmeStatusHandler.
(_gpgme_gpg_set_colon_line_handler): Change type of argument FNC
to GpgmeColonLineHandler.
(_gpgme_gpg_set_command_handler): Change type of argument FNC to
GpgmeCommandHandler.
* engine.c (_gpgme_engine_set_status_handler): Change type of
argument FNC to GpgmeStatusHandler.
(_gpgme_engine_set_colon_line_handler): Change type of argument FNC
to GpgmeColonLineHandler.
(_gpgme_engine_set_command_handler): Change type of argument FNC to
GpgmeCommandHandler.
* rungpg.h (_gpgme_gpg_enable_pipemode): Remove prototype.
* rungpg.c (struct gpg_object_s): Remove PM.
(pipemode_cb): Prototype removed.
(add_pm_data): Function removed.
(_gpgme_gpg_enable_pipemode): Likewise.
(pipemode_copy): Likewise.
(pipemode_cb): Likewise.
(add_arg): Don't check for pipemoge.
(add_data): Likewise.
(_gpgme_gpg_set_status_handler): Likewise.
(_gpgme_gpg_set_colon_line_handler): Likewise.
(_gpgme_gpg_set_command_handler): Likewise.
(_gpgme_gpg_spawn): Likewise.
(_gpgme_gpg_spawn): Don't set PM.active.
(_gpgme_gpg_op_verify): Remove pipemode case.
* verify.c (_gpgme_op_verify_start): Remove pipemoge case.
* rungpg.h (_gpgme_gpg_add_arg, _gpgme_gpg_add_data,
_gpgme_gpg_add_pm_data, gpgme_gpg_housecleaning,
_gpgme_gpg_set_simple_line_handler): Prototype removed.
(_gpgme_gpg_set_verbosity): New prototype.
* rungpg.c (_gpgme_gpg_add_data): Make static and rename to ...
(add_data): ... this.
(_gpgme_gpg_add_pm_data): Call add_data, not _gpgme_gpg_add_data.
(_gpgme_gpg_set_command_handler): Likewise.
(_gpgme_gpg_op_decrypt, _gpgme_gpg_op_edit, _gpgme_gpg_op_encrypt,
_gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
_gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_sign,
_gpgme_gpg_op_verify): Likewise.
(_gpgme_gpg_add_pm_data): Rename to ...
(add_pm_data): ... this.
(_gpgme_gpg_op_verify): Call add_pm_data, not _gpgme_gpg_add_pm_data.
(_gpgme_gpg_add_arg): Make static and rename to ...
(add_arg): ... this.
(_gpgme_gpg_set_command_handler, _gpgme_gpg_new,
_gpgme_gpg_op_decrypt, _gpgme_gpg_op_delete,
_gpgme_append_gpg_args_from_signers, _gpgme_gpg_op_edit,
_gpgme_append_gpg_args_from_recipients, _gpgme_gpg_op_encrypt,
_gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
_gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_keylist,
_gpgme_gpg_op_keylist_ext, _gpgme_gpg_op_trustlist,
_gpgme_gpg_op_sign, _gpgme_gpg_op_verify): Use add_arg, not _gpgme_gpg_add_arg.
(struct gpg_object_s): Remove member simple from colon.
(_gpgme_gpg_set_colon_line_handler): Don't initialize simple.
(_gpgme_gpg_set_simple_line_handler): Removed function.
(read_colon_line): Don't check the GPG->colon.simple.
* engine.c (gpgme_engine_set_verbosity): Call _gpgme_gpg_set_verbosity instead _gpgme_gpg_add_arg.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* util.h (_gpgme_malloc, _gpgme_realloc, _gpgme_calloc,
_gpgme_strdup, _gpgme_free): Remove prototypes.
(xtrymalloc, xtrycalloc, xtryrealloc, xtrystrdup, xfree): Remove macros.
* util.c: File removed.
* Makefile.am (libgpgme_la_SOURCES): Remove util.h.
* conversion.c (_gpgme_decode_c_string): Use malloc instead of xtrymalloc, realloc instead of xtryrealloc, calloc instead of xtrycalloc, free instead of xfree.
(_gpgme_data_append_percentstring_for_xml): Likewise.
* data.c (_gpgme_data_new, _gpgme_data_release): Likewise.
* data-compat.c (gpgme_data_new_from_filepart): Likewise.
* data-mem.c (mem_write, mem_release, gpgme_data_new_from_mem,
_gpgme_data_get_as_string): Likewise.
* debug.c (debug_init): Likewise.
* decrypt.c (_gpgme_release_decrypt_result): Likewise.
* delete.c (_gpgme_release_delete_result): Likewise.
* edit.c (_gpgme_release_edit_result, _gpgme_op_edit_start):
Likewise.
* encrypt.c (_gpgme_release_encrypt_result): Likewise.
* engine.c (_gpgme_engine_get_info, _gpgme_engine_new,
_gpgme_engine_release): Likewise.
New data object component:

* gpgme.h (GpgmeDataReadCb, GpgmeDataWriteCb, GpgmeDataSeekCb, GpgmeDataReleaseCb): New types.
(struct GpgmeDataCbs): New structure.
(gpgme_data_read): Changed prototype to match that of read() closely.
(gpgme_data_write): Similar for write().
(gpgme_data_seek, gpgme_data_new_from_cbs, gpgme_data_new_from_fd,
(gpgme_data_get_type, gpgme_check_engine): Prototype removed.

* Makefile.am (libgpgme_la_SOURCES): Add data.h, data.fd.c,
data-stream.c, data-mem.c, data-user.c and data-compat.c.
* data.c: Reimplemented from scratch.
* (data-compat.c, data.fd.c, data.h, data-mem.c, data-stream.c,
* context.h (struct gpgme_data_s): Removed.
* conversion.c: Include <errno.h> and <sys/types.h>.
* data.c (_gpgme_data_append_string): Move to ...
* conversion.c (_gpgme_data_append_string): ... here.
* data.c (_gpgme_data_append_for_xml): Move to ...
* conversion.c (_gpgme_data_append_for_xml): ... here.
* data.c (_gpgme_data_append_string_for_xml): Move to ...
* conversion.c (_gpgme_data_append_string_for_xml): ... here.
* data.c (_gpgme_data_append_percentstring_for_xml): Move to ...
* conversion.c (_gpgme_data_append_percentstring_for_xml): ... here.

* ops.h (_gpgme_data_get_mode, _gpgme_data_set_mode): Prototype removed.
* types.h (GpgmeDataMode): Type removed.

* decrypt.c (_gpgme_decrypt_start): Don't check data type or mode.
* edit.c (_gpgme_op_edit_start): Likewise.
* encrypt.c (_gpgme_op_encrypt_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* encrypt-sign.c (_gpgme_op_encrypt_sign_start): Likewise.
* export.c (_gpgme_op_export_start): Likewise.
* genkey.c (_gpgme_op_genkey_start): Likewise.
* import.c (_gpgme_op_import_start): Likewise.
* sign.c (_gpgme_op_sign_start): Likewise.
* verify.c (_gpgme_op_verify_start): Likewise.

* encrypt.c (gpgme_op_encrypt): Remove hack that returns invalid
  no recipient if no data was returned.
* encrypt-sign.c (gpgme_op_encrypt_sign): Remove hack that returns
  no recipient if no data was returned.
* encrypt-sign.c (gpgme_op_encrypt_sign): Remove hack that returns
  no recipient if no data was returned.

* engine.c (_gpgme_engine_op_verify): Add new argument to
differentiate detached from normal signatures.
* engine.h (_gpgme_engine_op_verify): Likewise for prototype.
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Likewise. Don't check
  mode of data argument.
* engine-gpgsm.h (_gpgme_gpgsm_op_verify): Likewise for prototype.
* gpgme.h (gpgme_op_verify_start): Likewise for prototype.
  (gpgme_op_verify): Likewise for prototype.
* rungpg.c (_gpgme_gpg_op_verify): Likewise.
* rungpg.h (_gpgme_gpg_op_verify): Likewise for prototype.
* verify.c (_gpgme_op_verify_start): Likewise.
  (gpgme_op_verify_start): Likewise.
  (gpgme_op_verify): Likewise.

* rungpg.c (struct arg_and_data_s): New member INBOUND to hold
  direction of data object.
  (_gpgme_gpg_add_data): Add new argument INBOUND. Use it to
determine direction of data object.
  (_gpgme_gpg_add_pm_data, _gpgme_gpg_set_command_handler,
   _gpgme_gpg_op_decrypt, _gpgme_gpg_op_edit, _gpgme_gpg_op_encrypt,
   _gpgme_gpg_op_encrypt_sign, _gpgme_gpg_op_export,
   _gpgme_gpg_op_genkey, _gpgme_gpg_op_import, _gpgme_gpg_op_sign,
   _gpgme_gpg_op_verify): Add new argument to _gpgme_gpg_add_data
  invocation.
  (build_argv): Use new member INBOUND to determine direction of
  file descriptor. Don't check the data type.
* rungpg.h (_gpgme_gpg_add_data): Add new argument to prototype.

* gpgme.c (gpgme_get_op_info): Don't call
  _gpgme_data_get_as_string if CTX->op_info is NULL.

* version.c (gpgme_check_engine): Function removed.

2002-09-30 Werner Koch <wk@gnupg.org>

* keylist.c (keylist_colon_handler): Take care when printing a
  NULL with the DEBUG.

* engine-gpgsm.c (struct gpgsm_object_s): New member ANY.
  (gpgsm_status_handler): Run the colon function to indicate EOF.
  (_gpgme_gpgsm_set_colon_line_handler): Better reset ANY here.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_hextobyte): Prevent superfluous
  multiplication with base. Reported by Stephane Corthsy.

* keylist.c (gpgme_op_keylist_ext_start): Use private asynchronous
  operation type in invocation of _gpgme_op_reset.
* ath.c: Include sys/time.h if sys/select.h is not available.

2002-09-13 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (keylist_status_handler): Do not call finish_key() here.
  (gpgme_op_keylist_ext_start): Set CTX->tmp_key to NULL.

2002-09-03 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (assuan_libobjs): Remove @LTLIBOBJ@ as we link them into gpgme unconditionally.
  (libgpgme_la_LIBADD): Change @LIBOBJ@ into @LTLIBOBJ@.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (assuan_libobjs): Use @LTLIBOBJ@ instead @LIBOBJ@.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* debug.c (_gpgme_debug_add): Test *LINE, not LINE.
  (_gpgme_debug_end): Likewise.
  Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* posix-io.c (_gpgme_io_select): Don't use a non-constant struct initializer.
  * version.c (_gpgme_get_program_version): Likewise.
  Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* conversion.c (_gpgme_decode_c_string): Set DESTP before modifying DEST.

* conversion.c (_gpgme_decode_c_string): Fix off by one error in last change.
* rungpg.c (_gpgme_append_gpg_args_from_signers): Move before _gpgme_op_edit so its prototype is known early on.

* conversion.c: New file.
* util.h: Add prototypes for _gpgme_decode_c_string and _gpgme_hextobyte.
* keylist.c (keylist_colon_handler): Call _gpgme_decode_c_string on issuer name.
* Makefile.am (libgpgme_la_SOURCES): Add conversion.c
* key.c (_gpgme_key_append_name): Replace calls to hextobyte by
calls to _gpgme_hextobyte.
(hash_key): Likewise.

2002-09-01 Marcus Brinkmann <marcus@g10code.de>

* op-support.c (_gpgme_op_reset): Set CTX->pending after calling
_gpgme_engine_release, as this will reset pending to zero in the
event done callback on cancelled operations.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_edit): Add args from signers.
Suggested by Miguel Coca <e970095@zipi.fi.upm.es>.

* rungpg.c (_gpgme_gpg_op_edit): Add bogus ctx argument.
* rungpg.h: Also to prototype.
* engine.c (_gpgme_engine_op_edit): Likewise.
* engine.h: Likewise.
* edit.c (_gpgme_op_edit_start): Likewise.

2002-08-29 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Implement signer
selection.
* vasprintf.c (va_copy): Define macro if not yet defined.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Reset
CTX->result.passphrase->no_passphrase if passphrase is given (good
or bad). Submitted by Jean DIRAISON <jean.diraison@free.fr>.

2002-08-28 Marcus Brinkmann <marcus@g10code.de>

* posix-io.c (_gpgme_io_spawn): Use a double-fork approach.
Return 0 on success, -1 on error.
* version.c (_gpgme_get_program_version): Don't wait for the child.
* engine.c (_gpgme_engine_housecleaning): Function removed.
(do_reaping): Likewise.
(_gpgme_engine_add_child_to_reap_list): Likewise.
(struct reap_s): Removed.
(reap_list): Likewise.
(reap_list_lock): Likewise.
* engine.h (_gpgme_engine_io_event): Remove prototypes for
_gpgme_engine_housecleaning and
_gpgme_engine_add_child_to_reap_list.
* rungpg.c (_gpgme_gpg_release): Don't add child to reap list.
(struct gpg_object_s): Remove PID member.
(_gpgme_gpg_new): Don't initialize GPG->pid.
(_gpgme_gpg_spawn): Don't set GPG->pid.
* wait.c (run_idle): Removed.
(gpgme_wait): Run idle_function directly.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* encrypt-sign.c (encrypt_sign_status_handler): Remove dead
  variables encrypt_info and encrypt_info_len.
* trustlist.c (gpgme_op_trustlist_start): Set colon line handler.
* posix-sema.c (sema_fatal): Remove function.
All these reported by Stphane Corthsy.

2002-08-23 Werner Koch <wk@gnupg.org>

* gpgme-config.in: Made --prefix work for --libs.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* ath.h: Update list of symbols that get a prefix: Rename the
  ath_mutex_*_available symbols to ath_*_available.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* stpcpy.c: New file from gnulib.
* Makefile.am (assuan_libobjs): Remove jnlib.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add prototype for gpgme_op_import_ext.
* import.c (struct import_result_s): New member `nr_considered'.
  Rename `any_imported' to `nr_imported'.
  (import_status_handler): Increment nr_imported. Set nr_considered
  if appropriate.
  (gpgme_op_import_ext): New function.
  (gpgme_op_import): Implement in terms of gpgme_op_import_ext.

2002-08-20 Werner Koch <wk@gnupg.org>

* gpgme.m4: Replaced with a new and faster version. This does not
  anymore try to build test programs. If we really need test
  programs, we should add an option to gpgme-config to do so.

* vasprintf.c (int_vasprintf): Hack to handle NULL passed for %s.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>
* gpgme.c (_gpgme_set_op_info): Append data on subsequent calls.
* encrypt-sign.c (encrypt_sign_status_handler): Remove op_info handling.

2002-08-19 Werner Koch <wk@gnupg.org>

* decrypt.c (is_token,skip_token): Duplicated from verify.c
  (gpgme_op_decrypt): Hack to properly return Decryption_Failed..
  (_gpgme_decrypt_status_handler): Create an operation info.

2002-08-14 Werner Koch <wk@gnupg.org>

* key.h (struct certsig_s): New. Use it in gpgme_key_s.
* key.c (gpgme_key_release): Release it. We need to add more code
  of course.
  (_gpgme_key_append_name): Use memset to initialize the struct.
* gpgme.h (GPGME_KEYLIST_MODE_SIGS): New.
* rungpg.c (_gpgme_gpg_op_keylist): Include sigs in listing depending
  non the list mode.

* key.c (gpgme_key_get_string_attr): Use GPGME_ATTR_TYPE to return
  information about the key type (PGP or X.509).
  (gpgme_key_get_ulong_attr): Likewise.

* keylist.c (keylist_colon_handler): Include 1 in the check for
  valid algorithms so that RSA is usable. Store the issuer name and
  serial number also for "crs" records. Parse the expire date for
  subkeys.
  (set_userid_flags): Put them onto the last appended key.

2002-07-29 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_edit): Use --with-colons.

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_read): For GPGME_DATA_TYPE_NONE, return EOF
  instead an error.

The following changes make it possible to flush an inbound data
pipe before invoking a command handler:

* posix-io.c (_gpgme_io_select): Accept new argument NONBLOCK to
  _gpgme_io_select. Set timeout of 0 if this is set.
* w32-io.c (_gpgme_io_select): Likewise.
* io.h: Add new argument NONBLOCK to _gpgme_io_select prototype.
* wait.c (do_select): Add new argument to _gpgme_io_select
  invocation.
* rungpg.h (_gpgme_gpg_set_command_handler): Add new argument linked_data to prototype.

* engine.h (_gpgme_engine_set_command_handler): Likewise.

* engine.c (_gpgme_engine_set_command_handler): Likewise.

* passphrase.c (_gpgme_passphrase_start): Pass NULL as linked_data argument to _gpgme_engine_set_command_handler.

* rungpg.c (struct gpg_object_s): New members linked_data and linked_idx in CMD.

(_gpgme_gpg_new): Initialize those new members.

(_gpgme_gpg_set_command_handler): Accept new argument linked_data.

(build_argv): Handle linked_data in the same hack as cb_data.

(read_status): If linked_data is in use, flush the pipe before activating the command handler.

* gpgme.h: Add prototypes for gpgme_op_edit_start and gpgme_op_edit.

The next changes export the status codes to the user:

* decrypt.c (_gpgme_decrypt_status_handler): Likewise, also prefix all STATUS_ with GPGME_.

* decrypt-verify.c (decrypt_verify_status_handler): Likewise.

* encrypt.c (_gpgme_encrypt_status_handler): Likewise.

(_gpgme_encrypt_sym_status_handler): Likewise.

* encrypt-sign.c (encrypt_sign_status_handler): Likewise.

* engine-gpgsm.c (parse_status): Likewise.

(gpgsm_status_handler): Likewise.

(gpgsm_set_recipients): Likewise.

* export.c (export_status_handler): Likewise.

* genkey.c (genkey_status_handler): Likewise.

* import.c (append_xml_impinfo): Likewise.

(import_status_handler): Likewise.

* keylist.c (keylist_status_handler): Likewise.

* passphrase.c (_gpgme_passphrase_status_handler): Likewise.

(command_handler): Likewise.

* progress.c (_gpgme_progress_status_handler): Likewise.

* sign.c (_gpgme_sign_status_handler): Likewise.

* trustlist.c (trustlist_status_handler): Likewise.

* verify.c (_gpgme_verify_status_handler): Likewise.

* gpgme.h (GpgmeEditCb): New type.

* rungpg.h (GpgStatusCode): Rename and move to ...

* gpgme.h (GpgmeStatusCode): ... this and here.

* Makefile.am (status-table.h): Run mkstatus on gpgme.h, not rungpg.h.

* mkstatus: Prefix STATUS with GPGME_.

* rungpg.h (GpgStatusHandler, GpgCommandHandler): Change type accordingly.

* ops.h (_gpgme_verify_status_handler, _gpgme_decrypt_status_handler, _gpgme_sign_status_handler,
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Submitted by Stéphane Corthesy:
* util.h (vasprintf): Correct prototype.
* encrypt-sign.c: Include <stddef.h>.
 (encrypt_sign_status_handler): Change type of ENCRYPT_INFO_LEN to size_t.
* ath-pthread.c: Include <stdlib.h>, not <malloc.h>.
* ath-pth.c: Likewise.

* delete.c (delete_problem): New case ambiguous specification.
(delete_status_handler): Handle new case (poorly).

2002-07-27 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_delete): Implement this.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_LDADD): Add @LIBOBJS@ for vasprintf and fopencookie.
* vasprintf.c: Update to more recent libiberty version.
* debug.h: Replace #elsif with #elif.

Submitted by Stéphane Corthesy:
* util.h (vasprintf): Correct prototype.
* encrypt-sign.c: Include <stddef.h>.
 (encrypt_sign_status_handler): Change type of ENCRYPT_INFO_LEN to size_t.
* ath-pthread.c: Include <stdlib.h>, not <malloc.h>.
* ath-pth.c: Likewise.

* _gpgme_encrypt_status_handler, _gpgme_passphrase_status_handler, _gpgme_progress_status_handler): Likewise.
* rungpg.c (struct gpg_object_s): Likewise for CMD.code.

These changes add an edit operation to GPGME:

* context.h (struct gpgme_context_s): New member RESULT.edit.
* ops.h: Add prototype for _gpgme_release_edit_result and _gpgme_passphrase_command_handler.
* passphrase.c (command_handler): Make non-static and rename to ...
 (_gpgme_passphrase_command_handler): ... this.
 (_gpgme_passphrase_start): Use new name for command handler.
* types.h: Add EditResult type.
* gpgme.c (_gpgme_release_result): Release EDIT result.
* edit.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add edit.c.
(libgpgme_la_LDADD): Rename to libgpgme_la_LIBADD, and include assuan_libobjs.
 (assuan_libobjs): New variable, set this instead libgpgme_la_LIBADD.
* engine.h (_gpgme_engine_op_edit): New prototype.
* engine.c (_gpgme_engine_op_edit): New function.
* rungpg.h (_gpgme_gpg_op_edit): New prototype.
* rungpg.c (_gpgme_gpg_op_edit): New function.

2002-07-27 Marcus Brinkmann <marcus@g10code.de>

* delete.c (delete_problem): New case ambiguous specification.
 (delete_status_handler): Handle new case (poorly).

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_delete): Implement this.
2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* wait.c (fdt_global): Make static. Reported by Stphane Corthsy.


* key.c (gpgme_key_get_as_xml): Add OTRUST attribute. Requested by Stphane Corthsy.
  (gpgme_key_get_string_attr): Add GPGME_ATTR_SIG_SUMMARY case to silence gcc warning.

* rungpg.c (_gpgme_gpg_new): Always set utf8 as charset.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_io_cbs): Deal with CTX being NULL.

* gpgme.c (_gpgme_op_event_cb_user): New function.
* op-support.c (_gpgme_op_reset): Support a new mode of operation for private or user event loop. Use new user event callback wrapper.
* trustlist.c (gpgme_op_trustlist_start): Use this new mode.
* keylist.c (gpgme_op_keylist_start): Likewise.

* rungpg.c (_gpgme_gpg_io_event): New function.
* rungpg.h (_gpgme_gpg_io_event): New prototype.
* engine.c (_gpgme_engine_io_event): New function.
* engine.h (_gpgme_engine_io_event): New prototype.
* keylist.c (finish_key): Call _gpgme_engine_io_event, and move the real work for the default IO callback routines to ...
  (_gpgme_op_keylist_event_cb): ... here. New function.
* trustlist.c (trustlist_colon_handler): Signal GPGME_EVENT_NEXT_TRUSTITEM. Move queue manipulation to ...
  (_gpgme_op_trustlist_event_cb): ... here. New function.
* gpgme.c (_gpgme_op_event_cb): Call _gpgme_op_keylist_event_cb and _gpgme_op_trustlist_event_cb when appropriate.
* ops.h (_gpgme_op_keylist_event_cb): New prototype.
  (_gpgme_op_trustlist_event_cb): Likewise.
* op-support.c (_gpgme_op_reset): Add comment why we don't use the user provided event handler directly.
* gpgme.h (GpgmeRegisterIOCb): Return GpgmeError value, and TAG in a pointer argument.
* wait.c (_gpgme_add_io_cb): Likewise.
* wait.h (_gpgme_add_io_cb): Likewise for prototype.
* rungpg.c (_gpgme_gpg_add_io_cb): Call IO_CBS->add with new
  argument. Fix up error handling.
* engine-gpgsm.c (_gpgme_gpgsm_add_io_cb): Call IO_CBS->add with
  new argument, fix up error handling.

2002-07-03 Werner Koch <wk@gnupg.org>

* encrypt.c (status_handler_finish): New.
  (_gpgme_encrypt_status_handler): Moved some code out to the new
  function and call this function also in case we get into the
  status handler with an error which might happen due to a kludge in
  engine-gpgsm.c

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_ext_start): Always use our own FD
  table (eg use synchronous mode).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Fix documentation of key attribute retrieval functions.

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* ops.h (_gpgme_wait_on_condition): Remove HANG argument from
  prototype and change return type to GpgmeError.
  (_gpgme_wait_one): New prototype.
* wait.c (gpgme_wait): Replace with the meat from
  _gpgme_wait_on_condition here, and remove the support for
  conditions.
  (_gpgme_wait_on_condition): Remove HANG argument from prototype
  and change return type to GpgmeError. Replace with meat from
  _gpgme_wait_one and add support for conditions.
  (_gpgme_wait_one): Just call _gpgme_wait_on_condition without
  condition.
* keylist.c (gpgme_op_keylist_ext_start): Always use our own FD
  table (eg use synchronous mode).
  (gpgme_op_keylist_next): Remove HANG argument from
  _gpgme_wait_on_condition. Check its return value.
* trustlist.c (gpgme_op_trustlist_start): Always use our own FD
  table (eg use synchronous mode).
  (gpgme_op_trustlist_next): Remove HANG argument from
  _gpgme_wait_on_condition. Check its return value.

2002-06-26 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (map_assuan_error): Map No_Data_Available to EOF.
* import.c (append_xml_impinfo): Kludge to print fingerprint instead of keyid for use with gpgsm.
   (import_status_handler): Set a flag to know whether any import occurred.
   (gpgme_op_import): Return -1 if no certificate was imported.

2002-06-25 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_set_io_cbs) [ENABLE_GPGSM]: Fixed function arguments.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_export): Only export the keys listed in RECP.
* export.c (gpgme_op_export): If no data was returned, return GPGME_No_Recipients.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_export): Implement.

2002-06-21 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_assuan_simple_command): Return ERR.
  (parse_status): New function.
  (gpgsm_status_handler): Use parse_status.
  (gpgsm_assuan_simple_command): Accept new arguments STATUS_FNC and STATUS_FNC_VALUE and process status messages.
  (gpgsm_set_recipients): Pass new arguments to gpgsm_assuan_simple_command.
  (gpgsm_set_fd): Likewise.
  (_gpgme_gpgsm_op_keylist): Likewise.
  (_gpgme_gpgsm_op_keylist_ext): Likewise.
  (_gpgme_gpgsm_op_sign): Likewise.

2002-06-21 Marcus Brinkmann <marcus@g10code.de>

* wait.c (_gpgme_remove_io_cb): Unlock FDT->lock.

2002-06-20 Werner Koch <wk@gnupg.org>

* rungpg.c (build_argv): Ignore GPG_AGENT_INFO if set but empty.

* verify.c (calc_sig_summary): Set bad policy for wrong key usage.
  (skip_token): New.
  (_gpgme_verify_status_handler): Watch out for wrong key usage.
  (gpgme_get_sig_string_attr): Hack to return info on the key
usage. Does now make use of the former RESERVED argument which has been renamed to WHATIDX.
(gpgme_get_sig_ulong_attr): Renamed RESERVED to WHATIDX.

2002-06-14 Marcus Brinkmann <marcus@g10code.de>

* wait.c (do_select): Return -1 on error, and 0 if nothing to run.
(_gpgme_wait_one): Only set HANG to zero if do_select returned an error, or there are no more file descriptors to wait on.
(_gpgme_wait_on_condition): Ignore return value from do_select for now.

2002-06-13 Werner Koch <wk@gnupg.org>

* verify.c (gpgme_op_verify): Make sure that we never access an uninitialized result structure.

2002-06-12 Werner Koch <wk@gnupg.org>

* keylist.c (struct keylist_result_s): New.
(_gpgme_release_keylist_result): Release it here
(keylist_status_handler): Handle truncated.
(append_xml_keylistinfo): New.
* gpgme.c (_gpgme_release_result): and use it here.
* types.h: Declare the new type here.
* context.h (struct gpgme_context_s): Use it here.

2002-06-11 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_release): Close status_cb.fd.
(_gpgme_gpgsm_new): Duplicate status file descriptor, so we can use our own close notification mechanism without interfering with assuan.

2002-06-11 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_ATTR_SIG_SUMMARY and the GPGME_SIGSUM_constants.
* verify.c (calc_sig_summary): New.
(gpgme_get_sig_ulong_attr): And use it here.

2002-06-10 Werner Koch <wk@gnupg.org>

* rungpg.h: Add new status codes TRUNCATED and ERROR.
* verify.c (is_token, copy_token): New.
(_gpgme_verify_status_handler): Use copy_token, handle the new ERROR status and store the errorcode used withgpgsm and trust status codes.
* gpgme.h: New attribute ERRTOK.
* key.c (gpgme_key_get_string_attr): Add dummy case for it.
  (gpgme_get_sig_string_attr): Use it here to return the last error.

2002-06-10 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_start): Move the code that sets the close notification for the status fd to ...
  (_gpgme_gpgsm_new): ... here.
* wait.h: Include "sema.h". Remove prototypes of
  _gpgme_remove_proc_from_wait_queue and
  _gpgme_register_pipe_handler. Add prototypes of
  _gpgme_fd_table_init, _gpgme_fd_table_deinit, _gpgme_fd_table_put,
  _gpgme_add_io_cb, _gpgme_remove_io_cb, _gpgme_wait_event_cb and
  _gpgme_wait_one..
* wait.c: Remove global variables PROC_QUEUE, PROC_QUEUE_LOCK,
  FD_TABLE_SIZE, FD_TABLE, FD_TABLE_LOCK. New global variables
  FDT_GLOBAL, CTX_DONE_LIST, CTX_DONE_LIST_SIZE,
  CTX_DONE_LIST_LENGTH and CTX_DONE_LIST_LOCK. Remove struct proc_s. Replace struct wait_item_s.
  (_gpgme_fd_table_init): New function.
  (_gpgme_fd_table_deinit): Likewise.
  (_gpgme_fd_table_put): Likewise.
  (set_process_done): Remove function.
  (do_select): Take argument FDT. Use that to decide which fds to select on.
  (_gpgme_remove_proc_from_wait_queue): Remove function.
  (_gpgme_wait_event_cb): New function.
  (_gpgme_wait_one): Likewise.
  (_gpgme_register_pipe_handler): Remove function.
  (_gpgme_remove_io_cb): Likewise.
  (_gpgme_freeze_fd): Remove function.
  (_gpgme_thaw_fd): Remove function.
* rungpg.c (struct fd_data_map_s): Add new member TAG.
  (struct gpg_object_s): Likewise for STATUS and COLON. Add member IDX to CMD. Add new member IO_CBS.
  (close_notify_handler): New variables POSSIBLY_DONE and NOT_DONE.
  For each I/O callback, check if it should be unregistered. If all callbacks have been unregistered, trigger GPGME_EVENT_DONE.
  Remove member RUNNING.
  (_gpgme_gpg_new): Initialize new members.
  (_gpgme_gpg_release): Check PID not RUNNING. Don't call
  _gpgme_remove_proc_from_wait_queue. Close GPG->CMD.FD if set.
  (build_argv): Store away the index instead the file descriptor for CMD.
  (_gpgme_gpg_spawn): Use _gpgme_gpg_add_io_cb to register IO
callbacks.
(gpg_status_handler): Change return type to void, remove PID
argument, close file descriptor if EOF or error occurs.
(read_status): Use _gpgme_gpg_add_io_cb instead _gpgme_thaw_fd.
Use IO_CBS->remove instead _gpgme_freeze_fd.
(gpg_colon_line_handler): Change return type to void, remove PID
argument, close file descriptor if EOF or error occurs.
(command_cb): Use IO_CBS->remove instead _gpgme_freeze_fd.
* rungpg.h (_gpgme_gpg_set_io_cbs): Prototype for
   _gpgme_gpg_set_io_cbs.
* gpgme.h (GpgmeIOCb): New type.
(GpgmeRegisterIOCb): Likewise.
(GpgmeRemoveIOCb): Likewise.
(GpgmeEventIO): Likewise.
(GpgmeEventIOCb): Likewise.
(struct GpgmeIOCs): New structure to hold I/O callbacks.
(_gpgme_set_op_io_cbs): New prototype.
(gpgme_get_op_io_cbs): Likewise.
* ops.h: New prototype for _gpgme_op_event_cb. Remove prototypes
   for _gpgme_freeze_fd and _gpgme_thaw_fd. Remove PID argument from
   _gpgme_data_inbound_handler and _gpgme_data_outbound_handler
   prototype. Add prototype for _gpgme_op_reset.
Add synchronous argument to _gpgme_decrypt_start prototype.
* io.h: Beautification.
* gpgme.c: Include "wait.h".
(gpgme_new): Initialize FDT.
(gpgme_get_io_cbs): Likewise.
(_gpgme_op_event_cb): Likewise.
* data.c (_gpgme_data_inbound_handler): Change return type to
   void. Drop PID argument. Close FD on error and EOF.
(write_mem_data): Don't close FD here ...
(write_cb_data): ... or here ...
(_gpgme_data_outbound_handler): ... but here. Change return type
to void. Drop PID argument.
* context.h: Include "wait.h".
(struct gpgme_context_s): New members FDT and IO_CBS.
* op-support.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add op-support.c.
* ops.h: Add prototype for _gpgme_op_reset().
* decrypt.c (_gpgme_decrypt_start): New argument SYNCHRONOUS. Use
   _gpgme_op_reset.
(gpgme_op_decrypt_start): Add synchronous argument.
(gpgme_op_decrypt): Likewise. Use _gpgme_wait_one instead
   gpgme_wait.
* delete.c (gpgme_op_delete_start): Rename to ...
   (_gpgme_op_delete_start): ... this. New argument SYNCHRONOUS.
Use `_gpgme_op_reset`. Make function static.

(gpgme_op_delete_start): Just a wrapper around `gpgme_op_delete_start` now.

(gpgme_op_delete): Add synchronous argument. Use `gpgme_wait_one` instead `gpgme_wait`.

* encrypt.c: Include "wait.h".

(gpgme_op_encrypt_start): Rename to ...

(_gpgme_op_encrypt_start): ... this. New argument SYNCHRONOUS. Use `_gpgme_op_reset`. Make function static.

(gpgme_op_encrypt_start): Just a wrapper around `gpgme_op_encrypt_start` now.

(gpgme_op_encrypt): Add synchronous argument. Use `gpgme_wait_one` instead `gpgme_wait`.

* encrypt_sign.c (gpgme_op_encrypt_sign_start): Rename to ...

(_gpgme_op_encrypt_sign_start): ... this. New argument SYNCHRONOUS. Use `_gpgme_op_reset`. Make function static.

(gpgme_op_encrypt_sign_start): Just a wrapper around `gpgme_op_encrypt_sign_start` now.

(gpgme_op_encrypt_sign): Add synchronous argument. Use `gpgme_wait_one` instead `gpgme_wait`.

* export.c (gpgme_op_export_start): Rename to ...

(_gpgme_op_export_start): ... this. New argument SYNCHRONOUS. Use `_gpgme_op_reset`. Make function static.

(gpgme_op_export_start): Just a wrapper around `gpgme_op_export_start` now.

(gpgme_op_export): Add synchronous argument. Use `gpgme_wait_one` instead `gpgme_wait`.

* genkey.c (gpgme_op_genkey_start): Rename to ...

(_gpgme_op_genkey_start): ... this. New argument SYNCHRONOUS. Use `_gpgme_op_reset`. Make function static.

(gpgme_op_genkey_start): Just a wrapper around `gpgme_op_genkey_start` now.

(gpgme_op_genkey): Add synchronous argument. Use `gpgme_wait_one` instead `gpgme_wait`.

* import.c (gpgme_op_import_start): Rename to ...

(_gpgme_op_import_start): ... this. New argument SYNCHRONOUS. Use `_gpgme_op_reset`. Make function static.

(gpgme_op_import_start): Just a wrapper around `gpgme_op_import_start` now.

(gpgme_op_import): Add synchronous argument. Use `gpgme_wait_one` instead `gpgme_wait`.

* keylist.c (gpgme_op_keylist_start): Use `_gpgme_op_reset`.

(gpgme_op_keylist_ext_start): Likewise.

* sign.c (gpgme_op_sign_start): Rename to ...

(_gpgme_op_sign_start): ... this. New argument SYNCHRONOUS. Use `_gpgme_op_reset`. Make function static.

(gpgme_op_sign_start): Just a wrapper around `gpgme_op_sign_start` now.
(gpgme_op_sign): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.
* trustlist.c (gpgme_op_trustlist_start): Use _gpgme_op_reset.
* verify.c (gpgme_op_verify_start): Rename to ...
(_gpgme_op_verify_start): ... this. New argument SYNCHRONOUS.
Use _gpgme_op_reset. Make function static.
(gpgme_op_verify_start): Just a wrapper around _gpgme_op_verify_start now.
(gpgme_op_verify): Add synchronous argument. Use _gpgme_wait_one instead gpgme_wait.
* engine-gpgsm.c (iocb_data_t): New type.
(_gpgme_gpgsm_new): Initialize all new members (and drop the old ones).
(close_notify_handler): New variable POSSIBLY_DONE. For each I/O callback, check if it should be unregistered. If all callbacks have been unregistered, trigger GPGME_EVENT_DONE.
(_gpgme_gpgsm_release): Remove variable PID. Use new variable names to close the file descriptors.
(_gpgme_gpgsm_op_decrypt): Use new variable names,
(_gpgme_gpgsm_op_encrypt): Likewise.
(_gpgme_gpgsm_op_genkey): Likewise.
(_gpgme_gpgsm_op_import): Likewise.
(_gpgme_gpgsm_op_keylist): Likewise.
(_gpgme_gpgsm_op_keylist_ext): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_verify): Likewise.
(gpgsm_status_handler): Drop argument PID. Change return type to void. Close status pipe before returning because of EOF or error.
(_gpgme_gpgsm_start): Use _gpgme_gpgsm_add_io_cb to register callback function.
* engine-gpgsm.h: New prototype for _gpgme_gpgsm_set_io_cbs.
* engine.c (_gpgme_engine_set_io_cbs): New function.
* engine.h: New prototype for _gpgme_engine_set_io_cbs.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Remove mutex.h.

2002-06-03 Marcus Brinkmann <marcus@g10code.de>

* key.c: Include <ctype.h>.
(_gpgme_key_append_name): Skip one more char when
processing escaped char. Submitted by Marc Mutz <mutz@kde.org>. Handle hexadecimal encodings. Also reported by Marc. Thanks!

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* ath.h: Enable the _gpgme_ prefix. Fix all those prefix macros.
* posix-sema.c: Use that prefix here.
* posix-io.c: Include "ath.h".
  (_gpgme_io_read): Use _gpgme_ath_read instead read.
  (_gpgme_io_write): Use _gpgme_ath_write instead write.
  (_gpgme_io_waitpid): Use _gpgme_ath_waitpid instead waitpid.
  (_gpgme_io_select): Use _gpgme_ath_select instead select.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (ath_components): New variable.
  (ath_components_pthread): Likewise.
  (ath_components_pthread): Likewise.
  (system_components): Add ath_components.

  * ath.h: New file.
  * ath.c: Likewise.
  * ath-pthread.c: Likewise.
  * ath-pthread.c: Likewise.
  * posix-sema.c (_gpgme_sema_cs_enter): Rework to use the ATH interface.
  * mutex.h: Remove file.

2002-05-30 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_get_string_attr): Return NULL when asking for an issuer with IDX > 0. We don't support altIssuerNames for now.

2002-05-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext): Aehmm, added missing variable definition. Oohh - Marcus was faster.

2002-05-22 Marcus Brinkmann <marcus@gnu.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext): Fix last change.

2002-05-21 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist)
  (_gpgme_gpgsm_op_keylist_ext): Pass the keylist mode to gpgsm.

2002-05-10 Werner Koch <wk@gnupg.org>
* key.h  (gpgme_key_s): Add OTRUST.
* keylist.c  (set_ownertrust): New.
  (keylist_colon_handler): Get the ownertrust value
* key.c  (gpgme_key_get_string_attr,gpgme_key_get_ulong_attr):
  Return that value.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* w32-util.c: New static variable GET_PATH_LOCK.
  (_gpgme_get_gpg_path): Remove superfluous NULL initializer.
  Take lock while determining path.
  (_gpgme_get_gpgsm_path): Likewise.
* version.c  (do_subsystem_inits): Set DONE to 1 after
  initialization.
  (gpgme_get_engine_info): New variable ENGINE_INFO_LOCK. Take lock
  while determining engine info.
* rungpg.c  (_gpgme_gpg_get_version): New variable
  GPG_VERSION_LOCK. Take the lock while determining the program
  version.
* posix-io.c: Include "sema.h".
  (_gpgme_io_spawn): New variable FIXED_SIGNALS_LOCK. Take the lock
  while fixing the signals.
  (_gpgme_io_select): Make READFDS and WRITEFDS non-static.
* key.c: Include "sema.h". New globals KEY_CACHE_LOCK and
  KEY_REF_LOCK.
  (capabilities_to_string): Make STRINGS very const.
  (_gpgme_key_cache_add): Lock the key cache.
  (_gpgme_key_cache_get): Likewise.
  (gpgme_key_ref, gpgme_key_release): Lock the key_ref_lock.
* import.c  (append_xml_impinfo): Make IMPORTED_FIELDS and
  IMPORT_RES_FIELDS very const. Make FIELD and FIELD_NAME a little
  const.
* engine.c  (_gpgme_engine_get_info): New variable
  ENGINE_INFO_LOCK. Take lock while determining engine info.
* engine-gpgsm.c: Include "sema.h".
  (_gpgme_gpgsm_get_version): New variable GPGSM_VERSION_LOCK. Take
  lock while getting program version.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* debug.h: New file.
* Makefile.am  (libgpgme_la_SOURCES): Add debug.h.
* util.h: Removed all prototypes and declarations related to
  debugging. Include "debug.h".

* debug.c  (debug_level): Comment variable and remove superfluous
  zero initializer.
(errfp): Likewise.
(_gpgme_debug_enabled): Function removed.
(struct debug_control_s): Definition removed.
(_gpgme_debug_level): Function removed.
(_gpgme_debug_begin): Rewritten to use vasprintf. Accept a
printf-style format specification and a variable number of
arguments.
(_gpgme_debug_add): Rewritten using vasprintf. Expect that format
starts out with "%s" for simplicity.
(_gpgme_debug_end): Rewritten using vasprintf. Do not accept a
TEXT argument anymore.

* posix-io.c (_gpgme_io_select): Use new level argument for
DEBUG_BEGIN instead explicit if construct.

* debug.c (debug_init): Remove superfluous zero initializer,
remove volatile flag of INITIALIZED. Do not use the
double-checked locking algorithm, it is fundamentally flawed and
will empty your fridge (on a more serious note, despite the
volatile flag it doesn't give you the guarantee you would expect,
for example on a DEC Alpha or an SMP machine. The volatile only
serializes accesses to the volatile variable, but not to the other
variables).

2002-05-03 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_new): Redirect any gpgsm error
output to /dev/null.

* verify.c (gpgme_get_sig_key): Set the protocol of the listctx.
  * gpgme.c (gpgme_get_protocol): New.

* data.c (gpgme_data_write): Changed type of BUFFER to void*.
  (gpgme_data_read): Ditto.

* verify.c (_gpgme_verify_status_handler): Handle TRUST_* status
  lines so that a claim can be made without looking up the key.
  (gpgme_get_sig_string_attr): New.
  (gpgme_get_sig_ulong_attr): New.

* gpgme.h (GpgmeAttr): Added GPGME_ATTR_SIG_STATUS.

* rungpg.h: Add new status codes from gpg 1.0.7 and formatted the
  list to align with the status.h file from gnupg.

* gpgme.h (GpgmeSigStat): Add _GOOD_EXP and _GOOD_EXPKEY.
  * verify.c (_gpgme_verify_status_handler, finish_sig): Handle
    these new status codes. Store the expiration time
2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeData.Encoding): New.
* data.c (gpgme_data_get_encoding,gpgme_data_set_encoding): New.
* engine-gpgsm.c (map_input_enc): New. Use it in all local
  functions where the INPUT command gets send.

2002-04-27 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Close the output
  descriptor only when we don't need it anymore. Close the message
  descriptor if we don't need it.

2002-04-26 Werner Koch <wk@gnupg.org>

* Makefile.am (libgpgme_la_LIBADD): Use libtool libraries.

2002-04-25 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_release): Call gpgme_data_release on
  GPG->cmd.cb_data, not xfree.

2002-04-25 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Set the display, ttyname,
  ttytype, lc_ctype and lc_messages options in the server.

2002-04-24 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (map_assuan_error): Add new error codes.

2002-04-23 Werner Koch <wk@gnupg.org>

* key.c (gpgme_key_get_ulong_attr): Swapped use of can_encrypt and
  can_certify to return the requested values.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_get_progress_cb): Allow either return parameter
  to be NULL.
  (gpgme_get_passphrase_cb): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_get_passphrase_cb): New function.
  (gpgme_get_progress_cb): New function.
* gpgme.h: Add new prototypes for gpgme_get_passphrase_cb and
gpgme_get_progress_cb.

2002-03-28 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeAttr): Add values for issuer and chaining.
 * key.h (gpgme_key_s): Add issuer and chaining elements for X509.
 * keylist.c (keylist_colon_handler): Store them.
 * key.c (gpgme_key_release): Free them.
 (gpgme_key_get_as_xml,gpgme_key_get_string_attr): Print them.

2002-03-26 Werner Koch <wk@gnupg.org>

* Makefile.am (libgpgme_la_SOURCES): Add mutex.h

2002-03-21 Werner Koch <wk@gnupg.org>

* util.h [!HAVE_FOPENCOOKIE]: Make sure off_t and ssize_t are defined.

2002-03-18 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (system_components): New variable, set depending on
  HAVE_DOSISH_SYSTEM.
 (libgpgme_la_SOURCES): Use system_components. Remove `syshdr.h'.
 * syshdr.h: File removed.

* posix-io.c: Remove !HAVE_DOSISH_SYSTEM safeguard. Clean up source.
 * posix-sema.c: Likewise.
 * posix-util.c: Likewise.

* w32-io.c: Remove HAVE_DOSISH_SYSTEM safeguard.
 * w32-sema.c: Likewise.
 * w32-util.c: Likewise.

* posix-io.c: Include `unistd.h', do not include `syshdr.h'.
 * posix-sema.c: Likewise.
 * w32-io.c: Include `io.h', do not include `syshdr.h'
 * w32-sema.c: Likewise.
 * w32-util.c: Likewise.
 * data.c: Do not include `syshdr.h'.
 * wait.c: Likewise.
 * wait.h: Code cleanup.

* mutex.h: New file.
 * posix-sema.c: Implement.

2002-03-08 Werner Koch <wk@gnupg.org>
* util.h [!HAVE_FOPENCOOKIE]: Fixed type. Thanks to Frank Heckenbach.

2002-03-07 Werner Koch <wk@gnupg.org>

* gpgme.h (gpgme_op_keylist_ext_start): Add prototype.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* encrypt.c (_gpgme_encrypt_sym_status_handler): New function.
  (gpgme_op_encrypt_start): New variable SYMMETRIC, set it if RECP
  is null, and if it is set, use _gpgme_encrypt_sym_status_handler
  as status handler and run _gpgme_passphrase_start.
* rungpg.c (_gpgme_gpg_op_encrypt): If RECP is zero, do symmetric
  encryption.
* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): If RECP is zero,
  return error value.

* rungpg.c (_gpgme_gpg_op_verify): Add "--" argument.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c (_gpgme_passphrase_status_handler): Also set the
  error No_Passphrase if only a bad passphrase was provided.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_verify): If TEXT is of mode
  GPGME_DATA_MODE_IN, construct a command line that stores the
  plaintext in TEXT.
* verify.c (gpgme_op_verify_start): Accept TEXT being
  uninitialized, and in this case interpret SIG as a normal or
  cleartext signature and TEXT as a return data object.
* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist_ext) [!ENABLE_GPGSM]:
  Add stub function.

2002-02-28 Werner Koch <wk@gnupg.org>

* key.h (subkey_s): New member expires_at.
* keylist.c (keylist_colon_handler): Set it here
* key.c (gpgme_key_get_as_xml,gpgme_key_get_ulong_attr): Return it.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h (_gpgme_gpg_op_keylist_ext): New prototype.
* rungpg.c (_gpgme_gpg_op_keylist_ext): New function.
* engine.h (_gpgme_engine_op_keylist_ext): New prototype.
* engine.c (_gpgme_engine_op_keylist_ext): New function.
* keylist.c (gpgme_op_keylist_ext_start): New function.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add new error code GPGME_Invalid_Recipient.
* encrypt.c (struct encrypt_result_s): New member invalid_recipients, rename no_recipients to no_valid_recipients.
  (_gpgme_encrypt_status_handler): Include error for invalid recipients.
* engine-gpgsm.c (gpgsm_set_recipients): Change type of first argument to GpgsmObject. Use that to report back the status about the recipients.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_verify_status_handler): Fix the last change.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_verify_status_handler): Parse the args line to see if the problem is due to a missing key, and report that back to the user.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_engine_op_encrypt_sign): New function.
* engine.h (_gpgme_engine_op_encrypt_sign): New prototype.
* rungpg.c (_gpgme_append_gpg_args_from_signers): New function.
  (_gpgme_gpg_op_sign): Use that new function.
  (_gpgme_gpg_op_encrypt_sign): New function.
* rungpg.h (_gpgme_gpg_op_encrypt_sign): New prototype.
* gpgme.h (gpgme_op_encrypt_sign_start): New prototype.
  (gpgme_op_encrypt_sign): Likewise.
* Makefile.am (libgpgme_la_SOURCES): Add encrypt-sign.c.
* ops.h (_gpgme_encrypt_status_handler): Add prototype.
  (_gpgme_sign_status_handler): Add prototype.
* sign.c (sign_status_handler): Rename to ...
  (_gpgme_sign_status_handler): ... this and make non-static.
* encrypt.c (encrypt_status_handler): Rename to ...
  (_gpgme_encrypt_status_handler): ... this and make non-static.
* encrypt.c (gpgme_op_encrypt_start): Use new status handler name.
* sign.c (gpgme_op_sign_start): Likewise.
* context.h (struct gpgme_context_s): New member include_certs.
* gpgme.h (gpgme_set_include_certs): Add prototype.
  (gpgme_get_include_certs): Likewise.
* gpgme.c (gpgme_set_include_certs): New function.
  (gpgme_get_include_certs): Likewise.
  (gpgme_new): Set include_certs to 1 (the default).
* engine.c (_gpgme_engine_op_sign): Accept new argument include_certs,
  and pass it to _gpgme_gpgsm_op_sign.
* engine.h (_gpgme_engine_op_sign): Likewise for prototype.
* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Accept new argument
  include_certs and handle it.
* engine-gpgsm.h (_gpgme_gpgsm_start): Add new argument include_certs.
* sign.c (gpgme_op_sign_start): Add new argument to
  _gpgme_engine_op_sign call.

2002-02-14 Werner Koch <wk@gnupg.org>

* keylist.c (gpgme_op_keylist_start): Do not use a verbose listing.

2002-02-13 Werner Koch <wk@gnupg.org>

* vasprintf.c, fopencookie.c: Add replacement functions.
* util.h: Add prototypes for them.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_assuan_simple_command): Return 0 if we
  reach the end of the function.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (gpgme_op_genkey_start): Fix logic in validity check.
  (gpgme_op_genkey_start): Skip newlines after opening tag.
* engine-gpgsm.c (_gpgme_gpgsm_start): Remove cruft.

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* genkey.c (gpgme_op_genkey_start): Allow PUBKEY and SECKEY to be
  set, and pass them down to the crypto engine.
* engine-gpgsm.h (_gpgme_gpgsm_start): New arguments PUBKEY and SECKEY.
* engine.h: Likewise.
* rungpg.h (_gpgme_gpg_spawn): Likewise.
* engine.c (_gpgme_engine_op_genkey): Likewise. Use those
  arguments.
* rungpg.c (_gpgme_gpg_op_genkey): Likewise. Complain if those
arguments are set.

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Beautify comment.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_op_keylist): Remove handling of keylist mode (for now).

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* wait.c (gpgme_wait): Add new argument STATUS, in which the status of the returned context is returned.
(_gpgme_wait_on_condition): Rework the function a bit, to make it aware of cancelled processes, and to allow to use gpgme_wait with CTX being NULL (as documented in the source).
(struct proc_s): New member REPORTED.
* gpgme.h: Fix prototype.
* verify.c (gpgme_op_verify): Fix use of gpgme_wait.
* sign.c (gpgme_op_sign): Likewise.
* import.c (gpgme_op_import): Likewise.
* genkey.c (gpgme_op_genkey): Likewise.
* export.c (gpgme_op_export): Likewise.
* encrypt.c (gpgme_op_encrypt): Likewise.
* delete.c (gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify): Likewise.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_keylist_mode): Possibly return an error value.
(gpgme_get_keylist_mode): New function.
(gpgme_new): Set the default for keylist_mode member of CTX.

* gpgme.h (gpgme_set_keylist_mode): Fix prototype.
(gpgme_get_keylist_mode): New prototype.
(GPGME_KEYLIST_MODE_LOCAL): New macro.
(GPGME_KEYLIST_MODE_EXTERN): Likewise..

2002-02-02 Marcus Brinkmann <marcus@g10code.de>

This patch has gotten a bit large... mmh. The main thing that happens here is that error values are now not determined in the operation function after gpgme_wait completed, but in the status handler when EOF is received. It should always be the case that either an error is flagged or EOF is received, so that after a
gpgme_wait you should never have the situation that no error is flagged and EOF is not received. One problem is that the engine status handlers don't have access to the context, a horrible kludge works around this for now. All errors that happen during a pending operation should be caught and reported in ctx->error, including out-of-core and cancellation. This rounds up neatly a couple of loose ends, and makes it possible to pass up any errors in the communication with the backend as well. As a bonus, there will be a function to access gpgme->wait, so that the operations can truly be implemented with their _start function.

* engine-gpgsm.c (gpgsm_status_handler): Horrible kludge to report error back to the context.
* rungpg.c (gpg_status_handler): Same horrible kludge applied here.

* engine-gpgsm.c (gpgsm_assuan_simple_command): Add error checking.

* wait.c (_gpgme_wait_on_condition): If canceled, set CTX->error to a value indication that.

* verify.c (add_notation): Set error, not out_of_core.

(verify sig): Likewise.
(gpgme_op_verify_start): Don't clear out_of_core.
(_gpgme_verify_status_handler): At EOF, clean up the notation data.
(gpgme_op_verify): And don't do it here.

* trustlist.c (trustlist_status_handler): Check error, not out_of_core.
(gpgme_op_trustlist_start): Don't clear out_of_core.
(gpgme_op_trustlist_next): Check error, not out_of_core.
(gpgme_op_trustlist_end): Likewise.

* ops.h (test_and_allocate_result): New macro.
(_gpgme_passphrase_result): Remove prototype.
* delete.c (gpgme_op_delete): Return error from context.
(delete_status_handler): Use macro test_and_allocate_result.
Perform error checking at EOF.
(gpgme_op_delete_start): Release result.

* passphrase.c (_gpgme_passphrase_status_handler): Use macro test_and_allocate_result, and perform error checking here.
(_gpgme_passphrase_result): Function removed.
* sign.c (gpgme_op_sign_start): Do not set out_of_core to zero.
(gpgme_op_sign): Just return the error value from the context.
(sign_status_handler): Only progress if no error is set yet. If we process an EOF, set the resulting error value (if any).
* decrypt.c (_gpgme_decrypt_result): Function removed.
(create_result_struct): Function removed.
(_gpgme_decrypt_status_handler): Use macro test_and_allocate_result, calculate error on EOF, do not progress with errors.
(_gpgme_decrypt_start): Do not set out_of_core to zero.
(gpgme_op_decrypt): Just return the error value from the context.
* encrypt.c (encrypt_status_handler): Perform the error checking here.
(gpgme_op_encrypt_start): Do not clear out_of_core.
* export.c (export_status_handler): Return if error is set in context.
(gpgme_op_export_start): Release result.
(gpgme_op_export): Return error from context.
* decrypt-verify.c (gpgme_op_decrypt_verify): Return the error in the context.
* genkey.c (genkey_status_handler): Use macro test_and_allocate_result. Perform error checking at EOF.
(gpgme_op_genkey): Just return the error from context.
* import.c (gpgme_op_import): Return the error from context.
(import_status_handler): Use macro test_and_allocate_result.
* keylist.c (gpgme_op_keylist_start): Do not clear out_of_core.
(gpgme_op_keylist_next): Return error of context.
(keylist_colon_handler): Set error instead out_of_code.
(finish_key): Likewise.

* context.h: Remove member out_of_core, add member error.
* gpgme.c (_gpgme_release_result): Clear error flag.

* engine.h (_gpgme_engine_get_error): New prototype.
* engine.c (_gpgme_engine_get_error): New function.
* engine-gpgsm.c (_gpgme_gpgsm_get_error): New function.

* engine-gpgsm.c (map_assuan_error): New function.
(gpgsm_assuan_simple_command): Change return type to GpgmeError, use the new function to map error values.
(gpgsm_set_fd): Change return type tp GpgmeError.
(_gpgme_gpgsm_op_decrypt): Change type of ERR to GpgmeError.
(_gpgme_gpgsm_op_import): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(struct gpgsm_object_s): New member error.
(gpgsm_status_handler): Set error if error occurs. Determine error number from ERR line received. If assuan_read_line fails, terminate the connection.

2002-02-01 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (MOSTLYCLEANFILES): New variable.

2002-02-01 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): At error, terminate the
connection to the server.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

* rungpg.h: Add STATUS_KEY_CREATED.

* progress.c: New file.
  * Makefile.am (libgpgme_la_SOURCES): Add progress.c.

* genkey.c (genkey_status_handler): Use
  _gpgme_progress_status_handler. Add check for status.
  (struct genkey_result_s): New structure.
  (_gpgme_release_genkey_result): New function.
  (gpgme_op_genkey): Check for error.
  * gpgme.c (_gpgme_release_result): Call
    _gpgme_release_genkey_result.
  * ops.h (_gpgme_release_genkey_result): Add prototype.
  * types.h (GenKeyResult): New type.
  * context.h (gpgme_context_s): Add GenKeyResult to member result.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (_gpgme_release_result): Call
  _gpgme_release_delete_result.
  * ops.h (_gpgme_release_delete_result): Add prototype.
  * types.h (DeleteResult): New type.
  * context.h (gpgme_context_s): Add DeleteResult to member result.

* delete.c (enum delete_problem): New type.
  (struct delete_result_s): New structure.
  (_gpgme_release_delete_result): New function.
  (delete_status_handler): Implement more status codes.
  (gpgme_op_delete): Return error on failure.

* import.c (MAX_IMPORTED_FIELDS): Bump up to 14.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* import.c (struct import_result_s): New structure.
  (_gpgme_release_import_result): New function.
  (append_xml_impinfo): Likewise.
  (import_status_handler): Implement.
  * gpgme.c (_gpgme_release_result): Add call to
    _gpgme_release_import_result.
  * ops.h (_gpgme_release_import_result): Add prototype.
  * types.h (ImportResult): New type.
  * context.h (gpgme_context_s): Add ImportResult to member result.
* encrypt.c (gpgme_op_encrypt): Code clean up.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add lots of comment and fix the formatting. Add
  gpgme_trustlist_end prototype.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h: Add new type GpgmeIdleFunc. Change type of
  gpgme_register_idle to return and accept this type.
* wait.c (gpgme_register_idle): Fix type.
  Save and return old value of idle_function.

2002-01-29 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Implement secret only mode.

* keylist.c (keylist_colon_handler): Add support for the new "crs"
  record type.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_release): Call assuan_disconnect,
  not assuan_pipe_disconnect.

* Makefile.am (libgpgme_la_LIBADD): Change to link assuan and
  jnlib (needed by assuan) statically into libgpgme. Linking a
  static library into a shared library this way is not portable.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (GpgmePassphraseCb): Change type of R_HD from void* to
  void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* data.c (gpgme_data_new_from_filepart): Change type of LENGTH
  from off_t to size_t.
* gpgme.h: Likewise.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* wait.c (_gpgme_wait_on_condition): If the process finished,
  reset the pending flag. Also if the operation was cancelled.

  (struct proc_s): Rename READY to DONE.
  (wait_item_s): Likewise.
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(set_process_ready): Rename to ...
(set_process_done): ... this.
(_gpgme_remove_proc_from_wait_queue): Call set_process_done
instead set_process_ready.
(_gpgme_wait_on_condition): Likewise.
(do_select): Rename READY to DONE.

* verify.c (gpgme_op_verify): Do not set pending to zero here.
* sign.c (gpgme_op_sign): Likewise.
* import.c (gpgme_op_import): Likewise.
* genkey.c (gpgme_op_genkey): Likewise.
* export.c (gpgme_op_export): Likewise.
* encrypt.c (gpgme_op_encrypt): Likewise.
* delete.c (gpgme_op_delete): Likewise.
* decrypt-verify.c (gpgme_op_decrypt_verify): Likewise.
* decrypt.c (gpgme_op_decrypt): Likewise.

2002-01-22 Marcus Brinkmann  <marcus@g10code.de>
* export.c: Cleanup.

2002-01-15 Marcus Brinkmann  <marcus@g10code.de>
* trustlist.c: Various source clean ups.
  (my_isdigit): Removed.
  (gpgme_op_trustlist_end): New function.

2002-01-13 Marcus Brinkmann  <marcus@g10code.de>
* gpgme.c: Various source clean ups, like renaming C to CTX where
  appropriate.
  (gpgme_new): Clear R_CTX before starting the work.
  (my_isdigit): Removed.
  (my_isxdigit): Likewise.

* data.c: Various source clean ups.
  (gpgme_data_new_from_mem): Check BUFFER after clearing R_DH.
  (gpgme_data_new_with_read_cb): Similar for READ_CB.
  (gpgme_data_new_from_file): Loop over fread while EINTR.
  (gpgme_data_new_from_filepart): Rediddled a bit. Allow LENGTH to
  be zero. Loop over fread while EINTR.

  (my_isdigit): Removed.
  (my_isxdigit): Likewise.

2001-12-21 Marcus Brinkmann  <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_new): Replace General_Error with
Pipe_Error where appropriate.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* engine.c: Include ’string.h’. Reported by Stphane Corthsy.

* version.c (get_engine_info): Remove prototype.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): New variable CHILD_FDS.
  Fill it with the servers fds, and pass it to assuan_pipe_connect.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_end): New function.
  * gpgme.h (gpgme_op_keylist_end): New prototype.
  
  * engine.h (gpgme_engine_check_version): Move prototype to ...
  * gpgme.h (gpgme_engine_check_version): ... here.
  
* genkey.c (gpgme_op_genkey_start): Remove unused variable.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* version.c (gpgme_get_engine_info): Reimplemented.
  (gpgme_check_engine): Reimplemented.
  (_gpgme_compare_versions): Return NULL if MY_VERSION is NULL.

* engine.c: Include ’io.h’.
  (gpgme_engine_get_info): New function.
  * engine.h (gpgme_engine_check_version, _gpgme_engine_get_info):
    Add prototype.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (struct reap_s, reap_list, reap_list_lock): Moved to ...
  * engine.c (struct reap_s, reap_list, reap_list_lock): ... here.
  Include ’time.h’, ’sys/types.h’, ’assert.h’, and ’sema.h’.

  * rungpg.c (_gpgme_engine_add_child_to_reap_list): New function.
    (do_reaping, _gpgme_gpg_housecleaning): Moved to ...
  * engine.c (do_reaping, _gpgme_engine_housecleaning): ... here.
  * rungpg.c (_gpgme_gpg_release): Replace code that is now in its
    own function by call to _gpgme_engine_add_child_to_reap_list().

  * wait.c: Include ’engine.h’.
    (run_idle): Call _gpgme_engine_housecleaning(), not
_gpgme_gpg_housecleaning().

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* key.c (_gpgme_key_append_name): Append, not prepend, the uid.
  Initialize the next field of the uid structure.
  (gpgme_key_get_as_xml): Do not list last uid first.

2001-12-17 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_set_colon_line_handler): New
  function [!ENABLE_GPGSM].

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_verify): Put TEXT into
  message_data, not SIG.
  (_gpgme_gpgsm_op_sign): Use `--detached', not `--detach'.

* sign.c (sign_status_handler): Call
  _gpgme_passphrase_status_handler early.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Revert last change.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Freeze the output file
  handler when ending this operation, otherwise the wait function
  will sit on it.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (struct gpgsm_object_s): New member colon.attic.
  (_gpgme_gpgsm_new): Initialize some more members.
  (_gpgme_gpgsm_release): Free the colon line handler's attic line.
  (gpgsm_status_handler): Rework the inline-data processing.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_spawn): Do not add the fds to the child
  list that are not dup'ed, for those the close-on-exec flag is set
  now.
* version.c (_gpgme_get_program_version): Remove first entry in
  CFD, as the close-on-exec flag is now set for this fd.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): Do not add `armor' option to `ENCRYPT'.
* engine-gpgsm.c (gpgsm_set_recipients): Free LINE when returning successfully.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (close_notify_handler): New function.
(_gpgme_gpgsm_new): Manage the file descriptors a bit differently. Do not set close-on-exec flags.
(_gpgme_gpgsm_op_decrypt): Do not set message_fd to -1, this is done by the close handler.
(_gpgme_gpgsm_op_encrypt): Likewise.
(_gpgme_gpgsm_op_import): Likewise (also for output_fd).
(_gpgme_gpgsm_op_keylist): Likewise (also for input_fd and output_fd).
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_verify): Likewise, but for output_fd.

* posix-io.c (_gpgme_io_pipe): Set the close-on-exec flag for the non-inherited file descriptor index of the pipe.

2001-12-13 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c (_gpgme_gpgsm_set_colon_line_handler): New.
(gpgsm_status_handler): Pass datalines to a colon handler
* engine.c (_gpgme_engine_set_colon_line_handler): Set the colon handler for gpgsm.

* engine-gpgsm.c (_gpgme_gpgsm_op_keylist): Allow NULL for pattern.
(gpgsm_assuan_simple_command): Removed underscore from assuan_write_line.
(_gpgme_gpgsm_start): Ditto.
(gpgsm_assuan_simple_command): Replaced internal Assuan read function by the new assuan_read_line. Removed the use of the internal header.
(gpgsm_status_handler): Ditto. Use the new assuan_pending_line.
(_gpgme_gpgsm_start): Use the documented way to get an fd from assuan.

* keylist.c (keylist_colon_handler): Handle "crt" records
* key.h (gpgme_key_s): Add an x509 flag.
* key.c (parse_x509_user_id): New.
(_gpgme_key_append_name): Handle x.509 names.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>
* engine-gpgsm.c (gpgsm_status_handler): Make it work with current version of assuan.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_set_fd): Accept one more argument OPT.
(_gpgme_gpgsm_op_encrypt): Pass armor argument to gpgsm_set_fd for output descriptor.
(_gpgme_gpgsm_op_sign): Likewise.

2001-12-05 Marcus Brinkmann <marcus@g10code.de>

* keylist.c (gpgme_op_keylist_next): Set pending to 0 if EOF occurs.

2001-11-26 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Fix stupid typo.

2001-11-24 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (gpgsm_status_handler): Don't break if bsearch fails.
Deal with assuan read line returning more than one line (for now).

2001-11-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_sign): Implement it according to the current protocol definition.

2001-11-23 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_new): Set CLOEXEC flag for parent ends of the pipe.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Include stdlib.h and string.h. Also include, for now, rungpg.h and status-table.h.
(gpgsm_status_handler): Implement more of the status handler.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine.c (_gpgme_engine_op_decrypt): Implement CMS case.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_export): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.

* engine-gpgsm.c (_gpgme_gpgsm_op_encrypt): New function.
(gpgsm_assuan_simple_command): Likewise.
(gpgsm_set_recipients): Likewise.
(gpgsm_set_fd): Reimplement using gpgsm_assuan_simple_command.
(_gpgme_gpgsm_op_delete): New function.
(_gpgme_gpgsm_op_export): Likewise.
(_gpgme_gpgsm_op_genkey): Likewise.
(_gpgme_gpgsm_op_sign): Likewise.
(_gpgme_gpgsm_op_keylist): Likewise.
(_gpgme_gpgsm_op_trustlist): Likewise.
(_gpgme_gpgsm_release): Release command.
(_gpgme_gpgsm_op_decrypt): Allocate command.
(_gpgme_gpgsm_op_import): Likewise.
(gpgsm_status_handler): Also treat 'ERR' strings as EOF.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.h (gpgme_set_protocol): New prototype.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c (_gpgme_gpgsm_op_decrypt): New function.
(_gpgme_gpgsm_op_import): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* engine-gpgsm.c: Shuffle around header inclusion a bit, to still keep them separate.
(_gpgme_set_status_handler) ![ENABLE_GPGSM]: New function.

2001-11-22 Werner Koch <wk@gnupg.org>

* engine-gpgsm.c: Include more headers so that NULL and mk_error is defined even with an undefined GPGSM_PATH.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (gpg_inbound_handler, write_mem_data, write_cb_data, gpg_outbound_handler): Moved to ...
* data.c (_gpgme_data_inbound_handler, write_mem_data, write_cb_data, _gpgme_data_outbound_handler): ... here. Make the _gpgme_.* ones non-static.
* data.c: Include io.h.

* ops.h (_gpgme_data_inbound_handler): New prototype.
Likewise.

Use these new functions.


* engine-gpgsm.c (struct gpgsm_object_s): New members input_fd, input_data, output_fd, output_data, message_fd, message_data, command and status.

(_gpgme_gpgsm_new): Open input, output and message pipes before connecting to the client. Close server's ends afterwards.

(_gpgme_gpgsm_release): Close open file descriptors. Remove server process from wait queue.


* engine.c (_gpgme_engine_start): Implement for GPGME_PROTOCOL_CMS.

(_gpgme_engine_set_status_handler): Likewise.

(_gpgme_engine_op_verify): Likewise.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* context.h: Do not include rungpg.h, but engine.h.

(struct gpgme_context_s): Replace member gpg with engine.

* gpgme.c (gpgme_release): Release engine, not gpg.

* recipient.c (_gpgme_append_gpg_args_from_recipients): Function moved ...

* rungpg.c (_gpgme_append_gpg_args_from_recipients): ... here.

Make static, change order of arguments, and return an error value.

* ops.h (_gpgme_gpg_op_verify): Removed prototype.

* rungpg.h (_gpgme_gpg_op_verify): Add prototype.

(_gpgme_gpg_op_encrypt): Likewise.

(_gpgme_gpg_op_decrypt): Likewise.

(_gpgme_gpg_op_delete): Likewise.

(_gpgme_gpg_op_export): Likewise.

(_gpgme_gpg_op_genkey): Likewise.

(_gpgme_gpg_op_import): Likewise.

(_gpgme_gpg_op_keylist): Likewise.

(_gpgme_gpg_op_sign): Likewise.

(_gpgme_gpg_op_trustlist): Likewise.

* rungpg.c (_gpgme_gpg_op_verify): New function.
(* engine.h (_gpgme_engine_set_status_handler): Add prototype.
(_gpgme_engine_set_command_handler): Likewise.
(_gpgme_engine_set_colon_line_handler): Likewise.
(_gpgme_engine_op_decrypt): Likewise.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_import): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.
(_gpgme_engine_start): Likewise.
* engine.c (_gpgme_engine_set_status_handler): New function.
(_gpgme_engine_set_command_handler): Likewise.
(_gpgme_engine_set_colon_line_handler): Likewise.
(_gpgme_engine_op_decrypt): Likewise.
(_gpgme_engine_op_delete): Likewise.
(_gpgme_engine_op_encrypt): Likewise.
(_gpgme_engine_op_genkey): Likewise.
(_gpgme_engine_op_import): Likewise.
(_gpgme_engine_op_keylist): Likewise.
(_gpgme_engine_op_sign): Likewise.
(_gpgme_engine_op_trustlist): Likewise.
(_gpgme_engine_op_verify): Likewise.
(_gpgme_engine_start): Likewise.

* verify.c (gpgme_op_verify_start): Reimplement in terms of above functions.
* encrypt.c (gpgme_op_encrypt_start): Likewise.
* decrypt.c (_gpgme_decrypt_start): Likewise.
* passphrase.c (_gpgme_passphrase_start): Likewise.
* keylist.c (gpgme_op_keylist_start): Likewise.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>
* types.h: Add types EngineObject and GpgsmObject.

* Makefile.am (libgpgme_la_SOURCES): Add engine-gpgsm.h, engine-gpgsm.c, engine.h and engine.c.
  * engine.h: New file.
  * engine.c: Likewise.
  * engine-gpgsm.h: Likewise.
  * engine-gpgsm.c: Likewise.

* rungpg.c (_gpgme_gpg_get_version): New function.
  (_gpgme_gpg_check_version): Likewise.
* rungpg.h: Add prototypes for _gpgme_gpg_get_version and _gpgme_gpg_check_version.

* version.c (compare_versions): Rename to ...
  (_gpgme_compare_versions): ... this. Make non-static.
  (gpgme_check_version): Use _gpgme_compare_versions rather than compare_versions.
  (gpgme_check_engine): Likewise.
* ops.h (_gpgme_get_program_version): Add prototype.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_INCLUDES): Remove obsolete directive.
  (AM_CPPFLAGS): New directive [BUILD_ASSUAN].
  (libgpgme_la_LIBADD): Likewise.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* version.c: Remove global variables lineno and tmp_engine_version.
  (version_handler): Removed.
  (_gpgme_get_program_version): New function.
  (get_engine_info): Don't use context and version_handler, but _gpgme_get_program_version.
* ops.h (_gpgme_get_program_version): Add prototype for _gpgme_get_program_version (we expect to use it elsewhere soon).

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* version.c (get_engine_info): If GnuPG is not available, return an error message.
* posix-util.c (_gpgme_get_gpg_path): Allow GPG_PATH to be undefined.
  (_gpgme_get_gpgsm_path): New function.
* w32-util.c (find_program_in_registry): New static function.
  (_gpgme_get_gpg_path): Allow GPG_PATH to be undefined. Rework to use find_program_in_registry.
(_gpgme_get_gpgsm_path): New function.
(util.h): Prototype _gpgme_get_gpgsm_path).
* rungpg.c (_gpgme_gpg_spawn): Verify that _gpgme_get_gpg_path()
returns non-null.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (libgpgme_la_SOURCES): Add decrypt-verify.c.
* types.h: Add decrypt-verify types.
* ops.h: Likewise.
* context.h: Add result type for decrypt-verify.
* gpgme.h: Add decrypt-verify prototypes.

* decrypt.c (decrypt_status_handler): Renamed to ...
(_gpgme_decrypt_status_handler): ... this. Make non-static.
(gpgme_decryp_start): New function, derived from
(gpgme_op_decrypt_start).
(gpgme_op_decrypt): Reimplement in terms of
(_gpgme_decrypt_start).
(_gpgme_decrypt_result): New function to retrieve error value.
(gpgme_op_decrypt): Use _gpgme_decrypt_result.
* ops.h: Add prototypes for new functions.

* verify.c (verify_status_handler): Renamed to ...
(_gpgme_verify_status_handler): ... this. Make non-static.
(gpgme_op_verify_start): Use new function name.
(intersect_stati): Renamed to ...
(_gpgme_intersect_stati): ... this. Make non-static.
(gpgme_op_verify): Use new name.
* ops.h: Add prototypes for new functions.

2001-11-16 Marcus Brinkmann <marcus@g10code.de>

* passphrase.c: New file.
* Makefile.am (libgpgme_la_SOURCES): Add passphrase.c.
* ops.h (_gpgme_passphrase_result): Add prototypes from
passphrase.c.
* types.h: Likewise.
* context.h: Add member passphrase to result.
* gpgme.c (_gpgme_release_result): Release passphrase member.

* decrypt.c: Some formatting and variable name changes (like
CTX instead C).
(struct decrypt_result_s): Remove members now found in
passphrase result.
(_gpgme_release_decrypt_result): Don't release removed members.
(decrypt_status_handler): Call _gpgme_passphrase_status_handler,
and don't handle the cases caught there.

(command_handler): Removed.

(gpgme_op_decrypt_start): Don't set command handler, but invoke
_gpgme_passphrase_start which does it.

(gpgme_op_decrypt): Invoke _gpgme_passphrase_result and drop the
cases covered by it.

* sign.c Some formatting and variable name changes (like
CTX instead C).

(struct sign_result_s): Remove members now found in
passphrase result.

(_gpgme_release_sign_result): Don't release removed members.

(sign_status_handler): Call _gpgme_passphrase_status_handler,
and don't handle the cases caught there.

(command_handler): Removed.

(gpgme_op_sign_start): Don't set command handler, but invoke
_gpgme_passphrase_start which does it.

(gpgme_op_sign): Invoke _gpgme_passphrase_result and drop the
cases covered by it.

2001-11-15 Marcus Brinkmann <marcus@g10code.de>

* decrypt.c (command_handler): Fix last change.

2001-11-15 Marcus Brinkmann <marcus@g10code.de>

* verify.c (_gpgme_release_verify_result): Rename RES to RESULT.
Rename R2 to NEXT_RESULT.

(intersect_stati): Rename RES to RESULT.

(gpgme_get_sig_status): Likewise. Do not check return_type, but
the member verify of result.

(gpgme_get_sig_key): Likewise.

* sign.c (_gpgme_release_sign_result): Rename RES to RESULT. If
RESULT is zero, return.

(sign_status_handler, command_handler): Do not check return_type,
but the member sign of result.

(gpgme_op_sign): Likewise. Drop assertion.

* encrypt.c (_gpgme_release_encrypt_result): Rename RES to RESULT.
If RESULT is zero, return.

(encrypt_status_handler): Do not check return_type, but the member
encrypt of result.

(gpgme_op_encrypt): Likewise. Drop assertion.

* decrypt.c (_gpgme_release_decrypt_result): Rename RES to RESULT.

(create_result_struct): Do not set result_type.

(command_handler, decrypt_status_handler): Do not check
return_type, but the member decrypt of result.
(gpgme_op_decrypt): Likewise. Drop assertion.

* context.h (enum ResultType): Removed.
(struct gpgme_context_s): Remove member result_type.
(struct result): Replaces union result.
* gpgme.c: Include string.h.
(_gpgme_release_result): Release all members of c->result, which is now a struct. Zero out all members of the struct afterwards.

2001-11-11 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (_gpgme_gpg_release): Release GPG->cmd.cb_data.
Release all members of the list GPG->arglist. Reported by Michael Schmidt <mschmidt@cs.uni-sb.de>.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* rungpg.c (pipemode_copy): Change type of NBYTES to size_t.
* key.c: Include string.h.
* data.c: Likewise.
* recipient.c: Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* context.h: New member signers_len.
* signers.c (gpgme_signers_clear): Require that signers are non-NULL with assertion. Use signers_len to determine how much keys to release. Add documentation.
(gpgme_signers_add): Use signers_len to determine if the buffer is large enough. Use xtryrealloc rather than xtrymalloc and copying. Add documentation.
(gpgme_signers_enum): Use signers_len to determine if key is available. Add documentation.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* data.c (_gpgme_data_append): Check if LENGTH is smaller than ALLOC_CHUNK, not DH->length.

2001-10-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.c (gpgme_set_protocol): Fix last change.

2001-10-15 Werner Koch <wk@gnupg.org>

* gpgme.h (GpgmeProtocol): New.
* gpgme.c (gpgme_set_protocol): New.

2001-09-26 Werner Koch <wk@gnupg.org>

* gpgme.c (gpgme_set_passphrase_cb): Ignore a NULL context.

2001-09-17 Werner Koch <wk@gnupg.org>

* keylist.c (finish_key): Shortcut for no tmp_key. Changed all callers to use this function without a check for tmp_key.

* keylist.c (gpgme_op_keylist_next): Reset the key_cond after emptying the queue. Bug reported by Stphane Corthsy.

2001-09-12 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_rewind): Allow rewind for callbacks.

2001-09-07 Werner Koch <wk@gnupg.org>

* rungpg.h: Add NO_RECP.
  * encrypt.c (encrypt_status_handler): Take on No_RECP.
    (gpgme_op_encrypt): Better error return.

* verify.c (verify_status_handler): Take on NODATA.

2001-09-03 Werner Koch <wk@gnupg.org>

* rungpg.h: Added STATUS_INV_RECP.
  * gpgme.c (_gpgme_release_result): Add support for new EncryptResult object.
  * encrypt.c (append_xml_encinfo): New.
    (encrypt_status_handler): Add some status parsing.
    (_gpgme_release_encrypt_result): New.

2001-08-29 Werner Koch <wk@gnupg.org>

* recipient.c (gpgme_recipients_release): Free the list. By Timo.

* keylist.c (keylist_colon_handler): Do a finish key if we receive an EOF here. This is probably the reason for a lot of bugs related to keylisting. It is so obvious. Kudos to Enno Cramer for pointing that out.

2001-08-28 Werner Koch <wk@gnupg.org>

* gpgme.c, gpgme.h (gpgme_get_op_info): New.
(_gpgme_set_op_info): New.
(_gpgme_release_result): Reset the op_info here.
* sign.c (append_xml_siginfo): New.
(sign_status_handler): Store the sig create information.

2001-07-31 Werner Koch  <wk@gnupg.org>

* encrypt.c (gpgme_op_encrypt): Hack to detect no valid recipients.

2001-07-30 Werner Koch  <wk@gnupg.org>

* gpgme.c (gpgme_get_armor,gpgme_get_textmode): New.

* rungpg.c (build_argv): Disable armor comments
* w32-io.c (build_commandline): Need to add quotes here

2001-07-24 Werner Koch  <wk@gnupg.org>

* data.c (gpgme_data_read): Add a a way to return the available bytes.

2001-07-23 Werner Koch  <wk@gnupg.org>

* util.c: Removed stpcpy() because we use the version from jnlib.

2001-07-19 Werner Koch  <wk@gnupg.org>

* mkstatus: Define the collating sequence for sort.

2001-06-26 Werner Koch  <wk@gnupg.org>

* rungpg.h: Add STATUS_UNEXPECTED as suggested by Timo.

2001-06-15 Werner Koch  <wk@gnupg.org>

* keylist.c (set_userid_flags): Fixed the assigned values. Kudos
to Timo for pointing this out.

2001-06-01 Werner Koch  <wk@gnupg.org>

* debug.c (_gpgme_debug_begin): Fixed a /tmp race. Noted by
Johannes Poehlmann.

2001-05-28 Werner Koch  <wk@gnupg.org>

* version.c (gpgme_check_engine): Stop version number parsing at
the opening angle and not the closing one. By Tommy Reynolds.

2001-05-01 Jos Carlos Garca Sogo <jose@jaimedelamo.eu.org>
* encrypt.c (gpgme_op_encrypt_start): Deleted the assert (!c->gpg) line, because it gave an error if another operation had been made before using the same context.

* decrypt.c (gpgme_op_decrypt_start): The same as above. Also added one line to release the gpg object in the context (if any).

2001-04-26 Werner Koch <wk@gnupg.org>

* key.c, key.h (_gpgme_key_cache_init): New. 
  (_gpgme_key_cache_add): New. 
  (_gpgme_key_cache_get): New. 
* version.c (do_subsystem_inits): Init the cache. 
* keylist.c (finish_key): Put key into the cache 
* verify.c (gpgme_get_sig_key): First look into the cache.

2001-04-19 Werner Koch <wk@gnupg.org>

* keylist.c (parse_timestamp): Adjusted for the changed --fixed-list-mode of gpg 1.0.4h. 

2001-04-05 Werner Koch <wk@gnupg.org>

* verify.c (gpgme_op_verify_start): Enabled pipemode for detached sigs. 

2001-04-04 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_select): Don't select on the writer if there are still bytes pending. Timo found this not easy to track down race condition. 

2001-04-02 Werner Koch <wk@gnupg.org>

* gpgme.h: Add GPGME_ATTR_KEY_[EXPIRED,DISABLED]. 
* key.c (gpgme_key_get_ulong_attr): And return those attribs. 

* verify.c (gpgme_get_sig_key): Set keylocking mode depending on the mode set in the current context. Suggested by Timo. 

* key.c (gpgme_key_get_ulong_attr): Return can_certify and not can_encrypt. By Timo. 

2001-03-30 Werner Koch <wk@gnupg.org>

* debug.c (debug_init): Allow to specify a debug file. 
  (_gpgme_debug_level): New.

2001-03-15 Werner Koch <wk@gnupg.org>

* rungpg.c: Included time.h.

* key.h: New keyflags for capabilities.
  * keylist.c (set_mainkey_capability, set_subkey_capability): New.
    (keylist_colon_handler): Parse them.
  * gpgme.h: New attribute values for capabilities.
  * key.c (gpgme_key_get_string_attr): Return them.
    (capabilities_to_string): New.
  * gpgme_key_get_ulong_attr): Return the global caps.

2001-03-14 Werner Koch <wk@gnupg.org>

* w32-io.c (destroy_reader,destroy_writer): Fixed syntax error.
  Thanks to Jan Oliver Wagner.

2001-03-13 Werner Koch <wk@gnupg.org>

* context.h: Add invalid and revoke flags to user_id structure.
  * keylist.c (gpgme_op_keylist_start): Use --fixed-list-mode.
    (keylist_colon_handler): Adjust for that.
  * set_userid_flags): New.
    (set_subkey_trust_info): Handle new key invalid flag
  * gpgme.h: Add new attributes for key and user ID flags.
  * key.c (_gpgme_key_append_name): Init these flags
    (gpgme_key_get_as_xml): Print them.
    (one_uid_as_xml): New helper for above.
    (gpgme_key_get_string_attr, gpgme_key_get_ulong_attr): Return the new attributes. Enhanced, so that subkey information can be returned now.

2001-02-28 Werner Koch <wk@gnupg.org>

* w32-io.c (destroy_reader): Set stop_me flag.
  (writer,create_writer,destroy_writer,find_writer,kill_writer): New.
  (_gpgme_io_write): Use a writer thread to avoid blocking.
  (_gpgme_io_close): Cleanup a writer thread
  (_gpgme_io_select): Replace the faked wait on writing by a real waiting which is now possible due to the use of a writer thread.

2001-02-20 Werner Koch <wk@gnupg.org>

(create_reader, reader): Add a new event to stop the thread.
(_gpgme_io_close): Kill the reader thread.

* posix-io.c (_gpgme_io_select): Handle frozen fds here.

* wait.c: Reworked the whole thing.
* rungpg.c (_gpgme_gpg_new): Init pid to -1.
(_gpgme_gpg_release): Remove the process from the wait queue.

2001-02-19 Werner Koch <wk@gnupg.org>

* w32-io.c (_gpgme_io_set_close_notify): New.
(_gpgme_io_close): Do the notification.

* posix-io.c (_gpgme_io_select): Use a 1 sec timeout and not 200 microseconds.

* wait.c (remove_process): Don't close the fd here.
(do_select): Set the fd to -1 and remove the is_closed flag everywhere.
(_gpgme_wait_on_condition): Remove the assert on the queue and break out if we could not find the queue. The whole thing should be reworked.

* posix-io.c (_gpgme_io_set_close_notify): New.
(_gpgme_io_close): Do the notification.

* rungpg.c (close_notify_handler): New.
(_gpgme_gpg_new): Register a callback for the fd.
(_gpgme_gpg_set_colon_line_handler): Ditto.
(build_argv): Ditto

2001-02-13 Werner Koch <wk@gnupg.org>

* rungpg.c (struct reap_s): Replaced pid_t by int.

* types.h: Add ulong typedef.

* rungpg.c (do_reaping, _gpgme_gpg_housecleaning): New.
* w32-io.c (_gpgme_io_kill): New (dummy).

* keylist.c (gpgme_op_keylist_start): Cancel a pending request.

* posix-io.c (_gpgme_io_read): Add some debug output.
(_gpgme_io_write): Ditto.
(_gpgme_io_select): Increased the timeout.
2001-02-12  Werner Koch  <wk@gnupg.org>

Enhanced the signature verification, so that it can now handle
more than one signature and is able to return more information on
the signatures.
* verify.c (gpgme_get_sig_key): New.
  (gpgme_get_sig_status): New.

* gpgme.h: Add stdio.h.
  (GpgmeSigStat): New status DIFF.

2001-02-01  Werner Koch  <wk@gnupg.org>

* w32-io.c (set_synchronize): Add EVENT_MODIFY_STATE.  Add Debug
code to all Set/ResetEvent().

* rungpg.c (read_status): Check for end of stream only if we have
  an r.  By Timo.

2001-01-31  Werner Koch  <wk@gnupg.org>

* wait.c (_gpgme_wait_on_condition): Removed all exit code processing.
  (propagate_term_results,clean_active_fds): Removed.
  (count_active_fds): Renamed to ..
  (count_active_and_thawed_fds): .. this and count only thawed fds.

* rungpg.c (gpg_colon_line_handler): Return colon.eof and not
  status.eof ;-) 

2001-01-30  Werner Koch  <wk@gnupg.org>

* w32-io.c (_gpgme_io_spawn): Use the supplied path arg.

* version.c (get_engine_info): Return better error information.

* posix-util.c, w32-util.c: New.
  (_gpgme_get_gpg_path): New, suggested by Jan-Oliver.
* rungpg.c (_gpgme_gpg_spawn): Use new function to get GPG's path.

* signers.c (gpgme_signers_add): Ooops, one should test code and
  not just write it; the newarr was not assigned.  Thanks to Jos
  for pointing this out.  Hmmmm, still not tested, why should a coder
  test his fix ;-) 

* w32-io.c: Does now use reader threads, so that we can use
  WaitForMultipleObjects.
* sema.h, posix-sema.c, w32-sema.c: Support for Critical sections.
Does currently only work for W32.

* debug.c, util.h : New. Changed all fprintfs to use this new set of debugging functions.

2001-01-23 Werner Koch <wk@gnupg.org>

* data.c (_gpgme_data_release_and_return_string): Fixed string termination.

2001-01-22 Werner Koch <wk@gnupg.org>

* delete.c: New.

* signers.c: New.
* key.c (gpgme_key_ref, gpgme_key_unref): New.
* sign.c (gpgme_op_sign_start): Allow the use of other keys.

* version.c (gpgme_get_engine_info, gpgme_check_engine): New.
* rungpg.c (_gpgme_gpg_set_simple_line_handler): New.

2001-01-05 Werner Koch <wk@gnupg.org>

* data.c (gpgme_data_rewind): Allow to rewind data_type_none.


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commit 2145348ec54c6027f2ea20f695de0277e2871405
Merge: 348ba88 2036f1a
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 03:04:19 2015 +1000
Merge pull request #4 from Hasimir/master

history

commit 2036f1a0a670a0561993e195c458059220b36114
Merge: dbabf0c 348ba88
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:57:44 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit dbabf0cf1f2985755c2293b619011832e34faa9c
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:52:23 2015 +1000

Added a short history

* A (very) brief summary of the project's history since 2002.
* Deals with why the commit log in the GPGME repo does not include the history of PyME.
* Mentions that intact git repos will be maintained, but not where they are (one will be on github, another will be in a user directory on playfair.gnupg.org).

docs/Short_History.rst | 57 ++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 57 insertions(+)

commit 348ba883424778c711c04ae9b66035ccdb36eb8c
Merge: 127d0a5 7c37a27
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:21:34 2015 +1000

Merge pull request #3 from Hasimir/master

Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612
Merge: f692cff 127d0a5
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:17:14 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit f692cff50a89c2e61acdbd3d7dd60f5ce3cd15af
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:09:44 2015 +1000

TODO update
* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODO.rst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5cf9e3bfe69fa681613757577e87b72ca08ec
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:00:44 2015 +1000

Version bump

* Bumped version number to 0.9.1 to keep it somewhat in line with the existing PyME project, even though there will be some divergence at some point (or even re-merging, depending on how many of the Python 3 modifications can be back-ported to the Python 2 version).
* Updated the author and copyright information to reflect the two current authors (Martin and I).
* Replaced Igor's contact details with mine.
* Replaced project home page with the GnuPG one.

pyme/version.py | 16 +++++++++-------
1 file changed, 9 insertions(+), 7 deletions(-)

commit ec167512f4ca88d8f6e89e2ae831798c8283b4df
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 01:48:01 2015 +1000

README preparation.

* Changes in preparation for impending move of code to the GnuPG git server as a part of GPGME.

README.rst | 14 +++++++++-------
1 file changed, 7 insertions(+), 7 deletions(-)

commit 8a48515e884c36b5bdb24a13cb4d2e49f4ee6f17
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 01:43:53 2015 +1000

TODO moved to docs

* As it says.

TODO.rst | 25 -----------------------
docs/TODO.rst | 25 ++++++++++++++++++++++++++
2 files changed, 25 insertions(+), 25 deletions(-)
Started another TODO file.

TODO.rst | 25 +++++++++++++++++++++++++
1 file changed, 25 insertions(+)

commit 127d0a56fa9f7ad1d4f39d0b529b890a8367365
Merge: db72dea 44837f6
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 16:52:13 2015 +1000

Merge pull request #2 from Hasimir/master

Minor editing.

commit 44837f6e50fc539c86ae1f75a6a353802029ea
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 14:56:55 2015 +1000

Minor editing.

* Fixed another URL.
* Changed Py3 version's version number to v0.9.1-beta0.

README.rst | 4 ++---
1 file changed, 2 insertions(+), 2 deletions(-)

commit db72deaae19c3513391df040bca668a88d9213af
Merge: db34286 48eb185
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 14:26:11 2015 +1000

Merge pull request #1 from Hasimir/master

Links

commit 48eb1856cb0739cc9f0b9084da9d965e1fc71dd
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 14:22:30 2015 +1000

Links

* Fixed URLs for authors.
* Updated my entry to point to github location.
** I strongly suspect the result of this work will be concurrent
projects, so preparing for that eventuality with this repo.

Explicit over Implicit ...

... isn't just for code.

* Removed the 2to3 working directory and its contents.
* Made the README.rst file a little more clear that this branch is for Python 3 (set Python 3.2 as a fairly arbitrary requirement for the moment, but will probably raise this to 3.3).

* In alphabetical order.
* Mine will need updating once Martin and I have decided what to do regarding the two main branches.

* Now able to import pyme.core without error, indicates port process is successful.
* Code is *not* compatible with the Python 2 version.
* Will need to consider making this a parallel project with the master branch.
* Got rid of the .org TODO file.
* Changed the README to use the reST file extension since it's full of reST anyway.

2to3/TODO.org | 5 ----
README.rst    | 32 +++++++++++++++++++++++++++++++++
README.txt    | 32 +---------------------------------
3 files changed, 32 insertions(+), 37 deletions(-)

commit 79e784bdcc1ed6f7856921b54310444c62c6f015
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:18:40 2015 +1000

Fixed another implicit import by making it explicit. Hopefully this is the last one.

pyme/util.py | 2 +- 
1 file changed, 1 insertion(+), 1 deletion(-)

commit 2b52b46ccda3e7abc50eed0745062259d698661
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:16:01 2015 +1000

Fixed another implicit import by making it explicit.

pyme/errors.py | 2 +- 
1 file changed, 1 insertion(+), 1 deletion(-)

commit 409c8fd565e21f23cd41daeffc867e6d23a0863
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:08:22 2015 +1000

Bytes vs. Unicode

* Trying PyBytes instead of PyUnicode.

gpgme.i   | 14 ++++++-------
helpers.c | 8 ++++-----
2 files changed, 11 insertions(+), 11 deletions(-)

commit d8164aa2ae98bf8e807c16e2d9be12c5fbea7cfd
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 09:22:58 2015 +1000

String to Unicode

* Replaced all instances of PyString with PyUnicode (and hoping there's no byte data in there).
PyInt_AsLong

* Replaced all instances of PyInt with PyLong, as per C API docs.

Import correction

* Once pygpgme.py is generated and moved, it will be in the right directory for the explicit "from . import pygpgme" to be correct.

The -py3 flag.

Fixed indentation - 4.
Pet Peeve

```python
def pet_peeve(self):
    peeve = print("people who don't press return after a colon!")

    FFS!
```

Fixed indentation - 2.

Fixed indentation - 3.

---

```
pyme/core.py | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:53:21 2015 +1000

Fixed indentation - 3.
```

```
pyme/core.py | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:47:54 2015 +1000

Fixed indentation - 2.
```

```
pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1ea3c23147c0e34804730
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:46:01 2015 +1000

Fixed indentation.
```

```
pyme/core.py | 4 +++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eba9bced9b0283c7d8e022e8972f06f9f8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:43:49 2015 +1000

Replaced all tabs with 4 spaces.
```

```
pyme/core.py | 18 +++++++++---
1 file changed, 9 insertions(+), 9 deletions(-)
```

---
commit 78c0b7677e94ce1e11b8cdb833a9064527187330
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:39:07 2015 +1000

    SWIG flags in the wrong place.

    Makefile | 4 ++--
    1 file changed, 2 insertions(+), 2 deletions(-)

commit dfa7f2589963494a8f89277560d8c1116604a3c8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:35:09 2015 +1000

    Fixed subprocess call for swig (again).

    setup.py | 2 +- 
    1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dcdca53127b99b6cce8a6c7c4a99f20
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:32:40 2015 +1000

    Fixed subprocess call for swig.

    setup.py | 2 +- 
    1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7e719cf4e975f466ceb39835db7007df36fb2
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 03:51:48 2015 +1000

    Linking swig to py3

    * Changed the swig invocations to run with the -python -py3 flags explicitly.

    Makefile | 4 ++--
    setup.py | 2 +- 
    2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6dcd8617a642185eeaa1124ff791a
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 11:12:00 2015 +1000

    String fun

    * streamlined confdata details, including decoding strom binary to string.

    setup.py | 4 +---
Open File

* Removed deprecated file() and replaced with open().

examples/PyGtkGpgKeys.py | 2 +--
examples/pygpa.py        | 6 +++--
gpgme-h-clean.py         | 2 +-  
3 files changed, 5 insertions(+), 5 deletions(-)

commit 4227d486f9558015e7e548d71085e58e1b50ec08
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:36:15 2015 +1000

print() fix

* Makefile includes a python print, changed from statement to function.

Makefile | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 406f7f2567b701502186fe0a325dc2a3491ff7f8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:28:42 2015 +1000

Updated Makefile

* set make to use python3 instead.
* This will mean a successful port may need to be maintained separately from the original python2 code instead of merged, but ought to be able to share most things. So maybe merge with separated make files or a pre-make script to set python2 or python3 prior to building ... decide later, after it works.

Makefile | 6 +++--
1 file changed, 3 insertions(+), 3 deletions(-)

commit 90b3efa5b193d37e08de9b4ee766ba9ebe9412af
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:15:20 2015 +1000

Env and a little license issue
* Updated all the /usr/bin/env paths to point to python3.
* Also fixed the hard coded /usr/bin/python paths.
* Updated part of setup.py which gave the impression this package was only licensed under the GPL (it's actually licensed under the LGPL as well, essentially the same dual licensing as the GPGME library).

```
examples/PyGtkGpgKeys.py  | 2 +-
examples/delkey.py        | 2 +-
examples/encrypt-to-all.py| 2 +-
examples/exportimport.py  | 2 +-
examples/genkey.py        | 2 +-
examples/inter-edit.py    | 2 +-
examples/pygpa.py         | 2 +-
examples/sign.py          | 2 +-
examples/signverify.py    | 2 +-
examples/simple.py        | 2 +-
examples/t-edit.py        | 2 +-
examples/testCMSgetkey.py | 2 +-
examples/verifydetails.py | 2 +-
gpgme-h-clean.py          | 2 +-
setup.py                  | 4 +----
15 files changed, 16 insertions(+), 16 deletions(-)
```
commit 1548bf201059638675c5387c6f124d4b703363a9
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 07:58:40 2015 +1000

2to3 conversion of remaining files

* Ran the extended version against all the unmodified python files.
* Only pyme/errors.py required additional work.

2to3/2to3-output-remaining.log | 60 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
pyme/errors.py                 |  2 +-
pyme/errors.py.bak             | 46 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 107 insertions(+), 1 deletion(-)

commit 1230650bc6bbe4c14d1284f7877aa932f3e86eb4
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 07:50:39 2015 +1000

2to3 conversion of setup.py

* Ran extended 2to3 command to produce python 3 code for setup.py.
* Effectively testing for what to run against the other originally unmodified py2 files.

2to3/2to3-output-setup.log | 35 ++++++++++++++
setup.py                   |  7 ++-
setup.py.bak               | 116 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 154 insertions(+), 4 deletions(-)

commit edad44955f59aa879e95a369591717fb19eecd6b7
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:50:07 2015 +1000

Removing 2to3 generated .bak files.

* Not really needed with a real VCS, but couldn't hurt to have them for a couple of revisions. ;)

examples/PyGtkGpgKeys.py.bak           | 663 ---------------
examples/encrypt-to-all.py.bak         |  65 --
examples/exportimport.py.bak           |  75 --
examples/genkey.py.bak                 |  45 -
examples/inter-edit.py.bak             |  57 --
examples/pygpa.py.bak                  | 1457 ------------------------
examples/sign.py.bak                   |  31 -
examples/signverify.py.bak             |  78 --
examples/simple.py.bak                 |  52 --
examples/t-edit.py.bak                 |  59 --
<table>
<thead>
<tr>
<th>File</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>examples/testCMSgetkey.py.bak</td>
<td>45 -</td>
</tr>
<tr>
<td>examples/verifydetails.py.bak</td>
<td>100 ---</td>
</tr>
<tr>
<td>gpgme-h-clean.py.bak</td>
<td>42 -</td>
</tr>
<tr>
<td>pyme/callbacks.py.bak</td>
<td>47 --</td>
</tr>
<tr>
<td>pyme/constants/data/<strong>init</strong>.py.bak</td>
<td>4 -</td>
</tr>
<tr>
<td>pyme/constants/keylist/<strong>init</strong>.py.bak</td>
<td>4 -</td>
</tr>
<tr>
<td>pyme/constants/sig/<strong>init</strong>.py.bak</td>
<td>4 -</td>
</tr>
<tr>
<td>pyme/core.py.bak</td>
<td>463 ------</td>
</tr>
<tr>
<td>pyme/util.py.bak</td>
<td>72 --</td>
</tr>
<tr>
<td>pyme/version.py.bak</td>
<td>41 -</td>
</tr>
</tbody>
</table>

20 files changed, 3404 deletions(-)

commit 1cfc3c969f885ed191610bffbbd60ac23fdd349e
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:45:50 2015 +1000

2to3 conversion log

* The output of the command to convert the code from Python 2 to 3.
* Note: this contains the list of files which were not modified and which will or may need to be modified.

2to3/2to3-output.log | 950 ++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 950 insertions(+)

commit 078f6cf878aa62d12704fab424198a613a24cc8c
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:36:58 2015 +1000

2to3 conversion of pyme master

* Branch from commit 459f3eca659b4949e394c4a032d9ce2053e6c721
* Ran this: or x in `find . | egrep .py$` ; do 2to3 -w $x; done ;
* Multiple files not modified, will record elsewhere (see next commit).

examples/PyGtkGpgKeys.py       | 10 +-    |
examples/PyGtkGpgKeys.py.bak   | 663 ++++++++    |
examples/encrypt-to-all.py     | 12 +-    |
examples/encrypt-to-all.py.bak | 65 ++    |
examples/exportimport.py       | 20 +-    |
examples/exportimport.py.bak   | 75 ++    |
examples/genkey.py             | 2 +-     |
examples/genkey.py.bak         | 45 +     |
examples/inter-edit.py         | 8 +-     |
examples/inter-edit.py.bak     | 57 ++    |
examples/pygpa.py              | 40 +-    |
examples/pygpa.py.bak          | 1457 ++++++++++++++++++++++++++++++    |
examples/sign.py               | 2 +-     |
<table>
<thead>
<tr>
<th>File</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>examples/sign.py.bak</td>
<td>31 +</td>
</tr>
<tr>
<td>examples/signverify.py</td>
<td>18 +-</td>
</tr>
<tr>
<td>examples/signverify.py.bak</td>
<td>78 ++</td>
</tr>
<tr>
<td>examples/simple.py</td>
<td>8 +-</td>
</tr>
<tr>
<td>examples/simple.py.bak</td>
<td>52 ++</td>
</tr>
<tr>
<td>examples/t-edit.py</td>
<td>12 +-</td>
</tr>
<tr>
<td>examples/t-edit.py.bak</td>
<td>59 ++</td>
</tr>
<tr>
<td>examples/testCMSgetkey.py</td>
<td>8 +-</td>
</tr>
<tr>
<td>examples/testCMSgetkey.py.bak</td>
<td>45 +</td>
</tr>
<tr>
<td>examples/verifydetails.py</td>
<td>34 +-</td>
</tr>
<tr>
<td>examples/verifydetails.py.bak</td>
<td>100 +++</td>
</tr>
<tr>
<td>gpgme-h-clean.py</td>
<td>2 +-</td>
</tr>
<tr>
<td>gpgme-h-clean.py.bak</td>
<td>42 +</td>
</tr>
<tr>
<td>pyme/callbacks.py</td>
<td>6 +-</td>
</tr>
<tr>
<td>pyme/callbacks.py.bak</td>
<td>47 ++</td>
</tr>
<tr>
<td>pyme/constants/data/<strong>init</strong>.py</td>
<td>2 +-</td>
</tr>
<tr>
<td>pyme/constants/data/<strong>init</strong>.py.bak</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/constants/keylist/<strong>init</strong>.py</td>
<td>2 +-</td>
</tr>
<tr>
<td>pyme/constants/keylist/<strong>init</strong>.py.bak</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/constants/sig/<strong>init</strong>.py</td>
<td>2 +-</td>
</tr>
<tr>
<td>pyme/constants/sig/<strong>init</strong>.py.bak</td>
<td>4 +</td>
</tr>
<tr>
<td>pyme/core.py</td>
<td>26 +-</td>
</tr>
<tr>
<td>pyme/core.py.bak</td>
<td>463 ++++++++</td>
</tr>
<tr>
<td>pyme/util.py</td>
<td>6 +-</td>
</tr>
<tr>
<td>pyme/util.py.bak</td>
<td>72 ++</td>
</tr>
<tr>
<td>pyme/version.py</td>
<td>2 +-</td>
</tr>
<tr>
<td>pyme/version.py.bak</td>
<td>41 +</td>
</tr>
</tbody>
</table>

40 files changed, 3515 insertions(+), 111 deletions(-)

commit 459f3eca659b4949e394c4a032d9ce2053e6c721
Merge: c5966ab dae7f14
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Wed Jul 9 10:48:33 2014 +0100

Merged in jerrykan/pyme/fix_setup_26 (pull request #1)

Provide support for using setup.py with Python v2.6

commit dace7f14a54e6c2bde0ad4da7308cc7fc0d0e0469
Author: John Kristensen <john.kristensen@dpipwe.tas.gov.au>
Date: Wed Jul 9 15:54:39 2014 +0100

Provide support for using setup.py with Python v2.6

The setup.py script uses subprocess.check_output() which was introduced in Python v2.7. The equivalent functionality can be achieved without adding much extra code and provide support for Python v2.6.
setup.py |  4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)

commit c5966abec9d772b3922d32650da288fd50a217be
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Thu May 15 19:43:00 2014 +0100

README.txt in ReST, including headlines

README.txt |  8 +++++++-
1 file changed, 6 insertions(+), 2 deletions(-)

commit 43ee8c6f34fa9b6d3975aa6ea60b3d4a741fa721
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Thu May 15 19:37:15 2014 +0100

README.txt in ReST

README.txt | 25 +++++++++++++++++++++++++-
1 file changed, 13 insertions(+), 12 deletions(-)

commit f71a369484c8a8801df23ccc5842335fa496c0df
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Thu May 15 19:28:12 2014 +0100

added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in |  6 +++++
README.md | 27 -------------------
README.txt | 27 ++++++++++++++++++++++++3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Tue May 13 09:52:44 2014 +0100

added mailing list to README

README.md | 19 +++++++++++++++++++++---
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92df684de261cb24c83c68089be0adc
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sun May 11 13:34:28 2014 +0100

we don't need a separate out of date ChangeLog file

ChangeLog | 802 -----------------------------------------------
1 file changed, 802 deletions(-)

commit 8263f1a6d38fd875f3dd5c7e28f83ca97528a08
Author: Martin Albrecht <martinralbrecht@gmail.com>
Date:   Sun May 11 13:32:31 2014 +0100

adding README.md

README.md | 14 ++++++++++++++
1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406
Author: Martin Albrecht <martinralbrecht@gmail.com>
Date:   Sat May 10 15:43:06 2014 +0100

ValueError -> RuntimeError

setup.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432ab2a56296b99fa36aac0d10926a2335b739
Merge: eea6537 d2738b3
Author: Martin Albrecht <martinralbrecht@gmail.com>
Date:   Sat May 10 15:41:02 2014 +0100

Merge branch 'master' of bitbucket.org:malb/pyme

Conflicts:
    setup.py

commit eea6537921061b4d4cfc54e00a99d3fa110e71433
Author: Martin Albrecht <martinralbrecht@gmail.com>
Date:   Sat May 10 15:39:51 2014 +0100

    check for swig

setup.py | 8 +++++++++
1 file changed, 8 insertions(+)

commit 53867bf9715ce1b4a873bf5e2fbb7d9740a2b4a
Author: Martin Albrecht <martinralbrecht@gmail.com>
Date:   Sat May 10 15:35:04 2014 +0100

    more friendly error message if gpgme is missing

setup.py | 8 ++++++++
1 file changed, 7 insertions(+), 1 deletion(-)
commit d2738b35d63b1492d69641c5466103685f2d3a30
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 10 15:35:04 2014 +0100

    more friendly error message if gpgme is missing

setup.py | 8 ++++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit c0b01240becf8ba6cf1d4c1f64b2cb4c056f5163
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Fri May 9 15:20:24 2014 +0100

    version number should have three digits

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e85401c48658b57774578
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Wed May 7 15:11:08 2014 +0100

    bump version number for upcoming release

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 7bd6de700f33ca5d1f27bc16ebbd401f21d2e788
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 19:36:25 2014 +0100

    bump version number to indicate changes

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 4fb6bd9b93f47c1a343242ac83b326cacad12a136e
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 19:34:07 2014 +0100

    pyme instead of pygpgme

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 9548973138d78241a45ccb82333b25f2cf36ce7d
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 19:31:10 2014 +0100
dirty hack to make 'python setup.py install' work

| 7 ++++-
| 1 file changed, 4 insertions(+), 3 deletions(-)

commit a961d7eb9db47eb7e603324bc5d243bd3c84bad
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 19:05:44 2014 +0100

moved everything down to the toplevel directory

| COPYING | 340 ++
| COPYING.LESSER | 510 ++++
| ChangeLog | 802 +++++
| INSTALL | 15 +
| Makefile | 104 +
| debian/README.Debian | 6 +
| debian/changelog | 93 +
| debian/control | 34 +
| debian/copyright | 25 +
| debian/docs | 2 +
| debian/examples | 2 +
| debian/rules | 99 +
| examples/PyGtkGpgKeys.glade | 1394 ++++++++.
| examples/PyGtkGpgKeys.glade.py | 8 +
| examples/PyGtkGpgKeys.py | 663 ++++
| examples/delkey.py | 34 +
| examples/encrypt-to-all.py | 65 +
| examples/exportimport.py | 75 +
| examples/genkey.py | 45 +
| examples/inter-edit.py | 57 +
| examples/pygpa.glade | 5546 +++++++++++++++++++++++++++++
| examples/pygpa.py | 1457 ++++++
| examples/sign.py | 31 +
| examples/signverify.py | 78 +
| examples/simple.py | 52 +
| examples/t-edit.py | 59 +
| examples/testCMSgetkey.py | 45 +
| examples/verifydetails.py | 100 +
| gpgme-h-clean.py | 42 +
| gpgme.i | 267 ++
| helpers.c | 154 +
| helpers.h | 36 +
| pyme/COPYING | 340 --
| pyme/COPYING.LESSER | 510 ---
| pyme/ChangeLog | 802 -----.
| pyme/INSTALL | 15 -
<table>
<thead>
<tr>
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<th>Added or Removed</th>
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</thead>
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</tr>
<tr>
<td>pyme/<strong>init</strong>.py</td>
<td>137</td>
</tr>
<tr>
<td>pyme/callbacks.py</td>
<td>47</td>
</tr>
<tr>
<td>pyme/constants/<strong>init</strong>.py</td>
<td>7</td>
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<tr>
<td>pyme/constants/data/<strong>init</strong>.py</td>
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</tr>
<tr>
<td>pyme/constants/data/encoding.py</td>
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<tr>
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<td>pyme/constants/pk.py</td>
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<td>pyme/constants/protocol.py</td>
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<td>pyme/core.py</td>
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<td>pyme/debian/README.Debian</td>
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<td>pyme/debian/changelog</td>
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<td>pyme/debian/examples</td>
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<td>pyme/errors.py</td>
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<td>pyme/gpgme-h-clean.py</td>
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<td>137</td>
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<tr>
<td>pyme/pyme/callbacks.py</td>
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<td>pyme/pyme/constants/data/<strong>init</strong>.py</td>
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<tr>
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<td>20 -</td>
</tr>
<tr>
<td>pyme/pyme/constants/md.py</td>
<td>20 -</td>
</tr>
<tr>
<td>pyme/pyme/constants/pk.py</td>
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<td>pyme/pyme/constants/protocol.py</td>
<td>20 -</td>
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<tr>
<td>pyme/pyme/constants/sig/<strong>init</strong>.py</td>
<td>4 -</td>
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<tr>
<td>pyme/pyme/constants/sig/mode.py</td>
<td>20 -</td>
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<tr>
<td>pyme/pyme/constants/status.py</td>
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<tr>
<td>pyme/pyme/constants/validity.py</td>
<td>20 -</td>
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<tr>
<td>pyme/pyme/core.py</td>
<td>463 ---</td>
</tr>
<tr>
<td>pyme/pyme/errors.py</td>
<td>46 -</td>
</tr>
<tr>
<td>pyme/pyme/util.py</td>
<td>72 -</td>
</tr>
<tr>
<td>pyme/pyme/version.py</td>
<td>41 -</td>
</tr>
<tr>
<td>pyme/setup.py</td>
<td>99 -</td>
</tr>
<tr>
<td>pyl/util.py</td>
<td>72 +</td>
</tr>
<tr>
<td>pyl/version.py</td>
<td>41 +</td>
</tr>
<tr>
<td>setup.py</td>
<td>99 +</td>
</tr>
</tbody>
</table>

108 files changed, 13384 insertions(+), 13384 deletions(-)

commit 8148cdd424c434e833ce427612ea8c89abc6e41c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 18:58:52 2014 +0100

removing pyme-web

<table>
<thead>
<tr>
<th>File</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyl-web/Makefile</td>
<td>15 -</td>
</tr>
<tr>
<td>pyl-web/default.css</td>
<td>37 --</td>
</tr>
<tr>
<td>pyl-web/doc/gpgme/ASCII-Armor.html</td>
<td>57 ---</td>
</tr>
<tr>
<td>pyl-web/doc/gpgme/Advanced-Key-Editing.html</td>
<td>98 ----</td>
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<td>pyl-web/doc/gpgme/Algorithms.html</td>
<td>47 --</td>
</tr>
<tr>
<td>pyl-web/doc/gpgme/Building-the-Source.html</td>
<td>82 ----</td>
</tr>
<tr>
<td>.../doc/gpgme/Callback-Based-Data-Buffers.html</td>
<td>148 ------</td>
</tr>
<tr>
<td>pyl-web/doc/gpgme/Cancellation.html</td>
<td>67 ---</td>
</tr>
<tr>
<td>pyl-web/doc/gpgme/Concept-Index.html</td>
<td>186 ------</td>
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<td>pyl-web/doc/gpgme/Context-Attributes.html</td>
<td>52 --</td>
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<td>61 ---</td>
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<td>pyl-web/doc/gpgme/Creating-Contexts.html</td>
<td>49 --</td>
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<tr>
<td>pyl-web/doc/gpgme/Creating-Data-Buffers.html</td>
<td>47 --</td>
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<tr>
<td>pyl-web/doc/gpgme/Creating-a-Signature.html</td>
<td>143 ------</td>
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<td>pyl-web/doc/gpgme/Crypto-Engine.html</td>
<td>79 --</td>
</tr>
<tr>
<td>pyl-web/doc/gpgme/Crypto-Operations.html</td>
<td>67 --</td>
</tr>
</tbody>
</table>
112 files changed, 10551 deletions(-)

commit 684d95feb7e10e538a56fb1b27f1456111babc60
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Mon Jan 6 17:44:20 2014 +0100

    fixing op_export_keys()

    the conversion of gpgme_key_t [] was restricted to gpgme_key_t [] with the
    name recv, i.e. only the use-cases of encryption were covered.

    see: http://sourceforge.net/mailarchive/forum.php?forum_name=pyme-
    help&max_rows=25&style=nested&viewmonth=201309

pyme/gpgme.i | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 658d23b95110d21eeb50abf4e74701a667521a88
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Mon Jan 6 17:41:33 2014 +0100

deleting CVSROOT

CVSROOT/checkoutlist | 13 ------------
CVSROOT/commitinfo   | 15 -----------
CVSROOT/config       | 21 -------------
CVSROOT/cvswrappers  | 19 -------------
CVSROOT/editinfo     | 21 -------------
CVSROOT/logininfo    | 26 -------------
CVSROOT/modules      | 26 ----------------
CVSROOT/notify       | 12 ------------
CVSROOT/rcsinfo      | 13 -------------
CVSROOT/taginfo      | 20 -------------
CVSROOT/verifymsg    | 21 -------------
11 files changed, 207 deletions(-)

commit 576b555499c094c4786d42de9e59aa9826009b89
Author: convert-repo <devnull@localhost>
Date:   Mon Jan 6 15:22:44 2014 +0000

    update tags

commit 2dcf0c5b702eb5a18c66ff1e42a72eaa7427af1d
Author: belyi <devnull@localhost>
Date:   Wed Nov 26 02:38:33 2008 +0000

    Move Windows specific fix from helpers.c to helpers.h so that it works
    for edit callback as well as for the passphrase one.
Update the way build directives are constructed on MinGW to have a bit more robust. Update PyMe build version to 0.8.1 in version.py

Update changelog

Fix hang problem on Windows when password is written to a filehandle.
Fix the way path is constructed on MinGW platform.

Add Bernard's example testCMSgetkey.py and his updates for verifydetails.py
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Author: belyi <devnull@localhost>
Date: Thu May 29 18:29:37 2008 +0000

Remove debian packaging for python2.3 since it is removed from both testing and unstable dists.
Update docs build target to have correct PYTHONPATH set.

pyme/Makefile    | 2 +-
pyme/debian/changelog | 4 +++++-
pyme/debian/control | 4 +++--
pyme/debian/rules   | 2 --
4 files changed, 6 insertions(+), 6 deletions(-)

commit c25d133fcbadf3c7f6e655586b4a05d6e3cf6f0b
Author: belyi <devnull@localhost>
Date: Thu Apr 3 13:37:12 2008 +0000

Forgot to adjust mainText margin. Doing it now.
pyme-web/default.css | 2 +- 1 file changed, 1 insertion(+), 1 deletion(-)

commit 897286a54a32336d060c0d03305cde6b7905f34f1
Author: belyi <devnull@localhost>
Date: Thu Apr 3 13:00:11 2008 +0000

Fix an error in default.css and make index.html "Standards Compliant".
pyme-web/default.css | 2 +-
pyme-web/index.html | 7 +++++--- 2 files changed, 5 insertions(+), 4 deletions(-)

commit 4e049212bd214449cc0ba1ce06e00782783f328a
Author: belyi <devnull@localhost>
Date: Thu Apr 3 12:38:42 2008 +0000

Adjust spacing between links.
pyme-web/default.css | 9 ++++++++--- 1 file changed, 6 insertions(+), 3 deletions(-)

commit cb2bdfbd77483b1deb14f2eab0715a03dd33fcd
Author: belyi <devnull@localhost>
Date: Wed Apr 2 22:50:21 2008 +0000

Make style a big more IE friendly.
pyme-web/default.css | 15 +++++++++++++++++----
1 file changed, 11 insertions(+), 4 deletions(-)

commit ad66f0a1bb01b46baac328e9fee439b35a60c232
Author: belyi <devnull@localhost>
Date: Wed Apr 2 11:58:32 2008 +0000

Make GPGME documentation a bit more web friendly on the index.html page.

pyme-web/doc/gpgme/Algorithms.html | 2 +- 
pyme-web/doc/gpgme/Concept-Index.html | 2 +- 
pyme-web/doc/gpgme/Contexts.html | 2 +- 
pyme-web/doc/gpgme/Error-Handling.html | 2 +- 
pyme-web/doc/gpgme/Exchanging-Data.html | 2 +- 
pyme-web/doc/gpgme/Function-and-Data-Index.html | 2 +- 
pyme-web/doc/gpgme/Introduction.html | 4 +- 
pyme-web/doc/gpgme/Library-Copying.html | 2 +- 
pyme-web/doc/gpgme/Preparation.html | 2 +- 
pyme-web/doc/gpgme/Protocols-and-Engines.html | 2 +- 
pyme-web/doc/gpgme/index.html | 229 +-----------------------
11 files changed, 12 insertions(+), 239 deletions(-)

commit 4f57c0cccb049d4442e7732e2d1d05dabfd2a21d
Author: belyi <devnull@localhost>
Date: Wed Apr 2 06:12:57 2008 +0000

Add missing core.set_locale() to set default locale for contexts.

pyme/debian/changelog | 2 +- 
pyme/pyme/core.py | 4 ++++
2 files changed, 5 insertions(+), 1 deletion(-)

commit acf7ead3dea8590cf9fe86b67bb125837ad6ed4f
Author: belyi <devnull@localhost>
Date: Wed Apr 2 05:50:24 2008 +0000

Avoid leaks caused by keys.
Add set/get methods for engine info.

pyme/debian/changelog | 10 +++++++++++
pyme/pyme/core.py | 24 +++++++++++++++++++++++++
2 files changed, 34 insertions(+)

commit df4a2fb518adbb6420d95ce74af212c87abf7e7
Author: belyi <devnull@localhost>
Date: Wed Apr 2 04:04:41 2008 +0000

Update index.html to reflect new versions on the web.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

commit bd3f9c9bdf98d6aafde6b689c8215fa468612d
Author: belyi <devnull@localhost>
Date: Wed Apr 2 04:01:04 2008 +0000

Update PyMe documentation to match 0.8.0 version of the package.

commit 6973a69a317608a0d0661590d701f4e3f3a21b32
Author: belyi <devnull@localhost>
Date: Wed Apr 2 02:35:24 2008 +0000

Have a fix for Contents being put onto 'Function and Data Index' page.

commit 086315964ebc2abad1187f306dcb9c72ac3257f3
Author: belyi <devnull@localhost>
Date: Wed Apr 2 01:00:29 2008 +0000

Update GPGME documentation. It's for v1.1.6 now.
Update Home page to be a bit more visitor friendly.

Add a rule to build binary distribution for Windows.
Switch to using central location for python files (pycentral)
Update docs rule to fix location of the python source files.

pyme/Makefile |  5 +++-
pyme/debian/changelog |  4 ++-
pyme/debian/control | 74 +++++-----------------------------
pyme/debian/dirs |  2 --
pyme/debian/docs |  1 +
pyme/debian/postinst.ex | 48 ---------------------------
pyme/debian/postrm.ex | 38 -----------------------
pyme/debian/preinst.ex | 44 -------------------------
pyme/debian/prerm.ex | 39 -------------------------
pyme/debian/rules | 50 +++++--------------------------
pyme/debian/setup.cfg-2.2 | 8 ----
pyme/debian/setup.cfg-2.3 | 8 ----
pyme/debian/setup.cfg-2.4 | 8 ----
pyme/gpgme-h-clean.py |  2 +-
pyme/pyme/core.py |  2 +-
pyme/pyme/util.py |  2 +-
16 files changed, 28 insertions(+), 307 deletions(-)

commit 2b56fd10517cfbcffaa4ba98d8ea42f40f0d38a9
Author: belyi <devnull@localhost>
Date:   Sun Mar 23 02:01:12 2008 +0000

Turn SWIG's autodoc feature on. Ignore ‘next’ in the types which are lists now.
Use new style for class declarations. Specify None as a default value for
core.check_version() method. Update version.py for 0.8.0 version.

pyme/examples/pygpa.py |  2 +-  
pyme/gpgme.i |  5 +++++
pyme/pyme/core.py |  2 +-  
pyme/pyme/util.py |  5 +++--
pyme/pyme/version.py |  6 +++++
5 files changed, 13 insertions(+), 7 deletions(-)

commit df5e25d7ee4dc0a0d429f9d009322dd8ac33bb8
Author: belyi <devnull@localhost>
Date:   Thu Mar 20 19:07:00 2008 +0000

Improve matching for DEPRECATED typedefs

pyme/gpgme-h-clean.py |  4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 78d8fc732848ac267ec65e9069265cd500587cdf
Author: belyi <devnull@localhost>
Update API to use list when types containing 'next' field are return.
Update examples accordingly
Add verifydetails.py example
Start adding bullets for 0.8.0 version.

pyme/Makefile                   |  2 +-
pyme/debian/changelog           | 14 ++++

pyme/examples/PyGtkGpgKeys.py   | 53 ++++++++----------------------
pyme/examples/delkey.py         | 7 ++-
pyme/examples/encrypt-to-all.py | 7 ++-
pyme/examples/exportimport.py  | 7 ++-
pyme/examples/pygpa.py         | 70 ++++++++----------------------
pyme/examples/signverify.py     | 11 ++++
pyme/examples/verifydetails.py  | 79 +++++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i                    | 19 ++++++++-

10 files changed, 180 insertions(+), 89 deletions(-)

commit 342d85b07475e7360bcd62804bf5facda039494f
Author: belyi <devnull@localhost>
Date:   Mon Mar 10 01:14:16 2008 +0000

Change references to source files so that they point to the WebCVS browse location.

pyme-web/doc/pyme/index.html                        | 2 +-
pyme-web/doc/pyme/pyme.callbacks.html               | 2 +-
pyme-web/doc/pyme/pyme.constants.data.encoding.html | 2 +-
pyme-web/doc/pyme/pyme.constants.data.html          | 2 +-
pyme-web/doc/pyme/pyme.constants.event.html         | 2 +-
pyme-web/doc/pyme/pyme.constants.html               | 2 +-
pyme-web/doc/pyme/pyme.constants.keylist.html       | 2 +-
pyme-web/doc/pyme/pyme.constants.keylist.mode.html  | 2 +-
pyme-web/doc/pyme/pyme.constants.md.html            | 2 +-
pyme-web/doc/pyme/pyme.constants.protocol.html      | 2 +-
pyme-web/doc/pyme/pyme.constants.sig.html           | 2 +-
pyme-web/doc/pyme/pyme.constants.sig.mode.html      | 2 +-
pyme-web/doc/pyme/pyme.constants.sigsum.html        | 2 +-
pyme-web/doc/pyme/pyme.constants.status.html        | 2 +-
pyme-web/doc/pyme/pyme.constants.validity.html      | 2 +-
pyme-web/doc/pyme/pyme.core.html                    | 2 +-
pyme-web/doc/pyme/pyme.errors.html                  | 2 +-
pyme-web/doc/pyme/pyme.html                        | 2 +-
pyme-web/doc/pyme/pyme.util.html                    | 2 +-
pyme-web/doc/pyme/pyme.version.html                 | 2 +-

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Add core.check_version(None) to all examples since this function is used by Gpgme to do internal initialization. Update debian/rules to use dh_pysupport instead of deprecated dh_python.

commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803
Author: belyi <devnull@localhost>
Date:   Sat Mar 8 18:21:08 2008 +0000

Add core.check_version(None) to all examples since this function is used by Gpgme to do internal initialization. Update debian/rules to use dh_pysupport instead of deprecated dh_python.

commit ae76c6176457dd38e0634cbe17d794294a3a81d2
Author: belyi <devnull@localhost>
Date:   Wed Apr 12 22:20:38 2006 +0000

Change name of internal package name from 'gpgme' to 'pygpgme' to avoid conflict with gpgme.dll on Windows.
Fix build with SWIG 1.3.28.
Change version to 0.7.1 in a preparation for new release.

commit d644383a76e9f83bc2d426628319e3c4a989dc2d
Author: belyi <devnull@localhost>
Date:   Sat Dec 17 01:34:53 2005 +0000
Put all constants into pyme.constants package to avoid stepping on python reserved words.

Add build rules for Mingw32 and Cygwin on Windows. Rules for Mingw under Debian are still to come.

Fixed a small bug in pygpa.py example.

pyme/Makefile             | 11 ++++++++---
pyme/examples/pygpa.py    |  3 ++
pyme/pyme/__init__.py     |  2 +
pyme/pyme/constants/__init__.py |  3 +
pyme/setup.py             | 42 ++++++++++++++++++++++++++++++++++++-----
5 files changed, 51 insertions(+), 10 deletions(-)

commit 89eb370fca8adce9d219eadbaa579dde7bf06329
Author: belyi <devnull@localhost>
Date:   Mon Aug 1 03:08:32 2005 +0000

Imported changes provided by Joost van Baal:
Use dh_python in debian/rules and change the Section pyme belongs to from 'libs' to 'python'.

pyme/debian/control | 6 +++---
pyme/debian/rules   | 2 ++
2 files changed, 5 insertions(+), 3 deletions(-)

commit ad76d10c2a77b45b7459c62131279e946b860891
Author: belyi <devnull@localhost>
Date:   Fri Jun 10 03:01:22 2005 +0000

Update 'docs' rule in Makefile to build packages first to ensure that documentation is built for the current version of pyme and not for the installed one.

Added 'callbacks' into the list of visible pyme modules (__all__ var.)

Slightly updated INSTALL file.

pyme/INSTALL             | 11 ++++++++---
pyme/Makefile            |  4 ++--
pyme/pyme/__init__.py    |  2 +
3 files changed, 11 insertions(+), 6 deletions(-)

commit 2fe1a81e00721698bfa6850b3db2eb85e43d1724
Author: belyi <devnull@localhost>
Date:   Wed Jun 8 16:16:18 2005 +0000

Update pyme documentation to remove dead links to pyme.gpgme.html and pyme._gpgme.html
Added reference to the installed GPGME and PyMe documentation to the head web page.

Updated Makefile to install all *.html files and to clean *~ files in all subdirectories

pyme-web/Makefile | 10 ++++++++  
pyme-web/doc/pyme/index.html | 8 +++  
pyme-web/doc/pyme/pyme.callbacks.html | 8 ---------  
pyme-web/doc/pyme/pyme.core.html | 1 -  
pyme-web/doc/pyme/pyme.errors.html | 8 ---------  
pyme-web/doc/pyme/pyme.html | 8 +++  
pyme-web/doc/pyme/pyme.util.html | 8 ---------  
pyme-web/index.html | 9 ++++++++  
8 files changed, 19 insertions(+), 41 deletions(-)

commit 6aa34cce4ea099e50b4936dfee59778157b8ca8  
Author: belyi <devnull@localhost>  
Date: Wed Jun 8 15:18:20 2005 +0000  

Added pyme and gpgme documentation.

pyme-web/doc/gpgme/gpgme.html | 251 ++++++++  
pyme-web/doc/gpgme/gpgme_1.html | 76 +++  
pyme-web/doc/gpgme/gpgme_10.html | 61 ++  
pyme-web/doc/gpgme/gpgme_11.html | 130 +++  
pyme-web/doc/gpgme/gpgme_12.html | 82 +++  
pyme-web/doc/gpgme/gpgme_13.html | 130 +++  
pyme-web/doc/gpgme/gpgme_14.html | 108 +++  
pyme-web/doc/gpgme/gpgme_15.html | 69 +++  
pyme-web/doc/gpgme/gpgme_16.html | 169 +++++  
pyme-web/doc/gpgme/gpgme_17.html | 63 ++  
pyme-web/doc/gpgme/gpgme_18.html | 63 ++  
pyme-web/doc/gpgme/gpgme_19.html | 66 ++  
pyme-web/doc/gpgme/gpgme_2.html | 79 +++  
pyme-web/doc/gpgme/gpgme_20.html | 120 +++  
pyme-web/doc/gpgme/gpgme_21.html | 102 +++  
pyme-web/doc/gpgme/gpgme_22.html | 108 +++  
pyme-web/doc/gpgme/gpgme_23.html | 237 ++++++++  
pyme-web/doc/gpgme/gpgme_24.html | 154 +++++  
pyme-web/doc/gpgme/gpgme_25.html | 248 ++++++++  
pyme-web/doc/gpgme/gpgme_26.html | 107 +++  
pyme-web/doc/gpgme/gpgme_27.html | 80 +++  
pyme-web/doc/gpgme/gpgme_28.html | 67 ++  
pyme-web/doc/gpgme/gpgme_29.html | 164 +++  
pyme-web/doc/gpgme/gpgme_3.html | 86 +++  
pyme-web/doc/gpgme/gpgme_30.html | 106 +++  
pyme-web/doc/gpgme/gpgme_31.html | 232 ++++++++  
pyme-web/doc/gpgme/gpgme_32.html | 85 +++
commit 2d6fe54479f042644f7b0f3d2fe35877d2056144
Author: belyi <devnull@localhost>
Date:   Thu May 19 02:06:09 2005 +0000

Added INSTALL file.

pyme/INSTALL | 10 +++++++++

1 file changed, 10 insertions(+)
commit d6892fff0c3cedf41dab4c25ab8608e7f2bc039c
Author: belyi <devnull@localhost>
Date:   Tue May 17 16:49:28 2005 +0000

Update copyright note on simple.py

pyme/examples/simple.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit c2cd9cdf5995843aad7b200b929db2969effc9d2
Author: belyi <devnull@localhost>
Date:   Tue May 17 15:03:58 2005 +0000

Update simple.py to catch errors.

pyme/examples/simple.py | 17 +++++++++++------
1 file changed, 11 insertions(+), 6 deletions(-)

commit eaedae7c6a0ea993caab067efe781a59b6769c44
Author: belyi <devnull@localhost>
Date:   Tue May 17 01:18:23 2005 +0000

Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile               | 1 +
pyme/examples/signverify.py | 1 +
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198
Author: belyi <devnull@localhost>
Date:   Wed Apr 27 21:37:06 2005 +0000

Added pygpa example.

pyme/debian/changelog     |    3 +-
pyme/examples/pygpa.glade | 5546 +++++++++++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/pygpa.py    | 1459 +++++++++++
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ac3fee5410c953b7e0859e9e7cd35
Author: belyi <devnull@localhost>
Date:   Thu Apr 21 15:17:51 2005 +0000

Change version to 0.7.0 due to the change in license.

pyme/debian/changelog | 2 +-
pyme/pyme/version.py | 2 +-

---

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  11975

2 files changed, 2 insertions(+), 2 deletions(-)

commit 94e34e38d742f145385bd235825b66bae30d8339
Author: belyi <devnull@localhost>
Date:   Thu Apr 21 03:53:12 2005 +0000

    Changed license on PyMe from GPL to LGPL.
    PyMe examples keep GPL license.

pyme/COPYING.LESSER                  | 510 +++++++++++++++++++++++++++++++++++
pyme/Makefile                        | 20 +-
pyme/debian/changelog                | 4 +-
pyme/debian/copyright                | 22 +-
pyme/gpgme-h-clean.py                | 16 ++
pyme/gpgme.i                         | 20 +-

commit 0d8aa0f6335cb1506a37085095ed45173b099a02
Author: belyi <devnull@localhost>
Date:   Tue Apr 19 01:46:06 2005 +0000

    Added __hash__ and __eq__ methods to GpgmeWrapper to allow both Context()
    and Data() to be used as a dictionary key.
    Changed core.wait() function to always return a tuple. On timeout now it
    returns (0, None) instead of just None. Plus, return context is now a
    Context() object instead of a wrapper return by underlying gpgme.

pyme/helpers.c    |  1 -
<table>
<thead>
<tr>
<th>File Path</th>
<th>Lines Added</th>
<th>Lines Deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyme/pyme/core.py</td>
<td>25</td>
<td>0</td>
</tr>
<tr>
<td>pyme/pyme/util.py</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>11</td>
</tr>
</tbody>
</table>

3 files changed, 24 insertions(+), 11 deletions(-)

commit 63ff6d10637be1debc78c939ac1ef1ac30b1024
Author: belyi <devnull@localhost>
Date: Wed Apr 6 04:58:40 2005 +0000

Made hook parameter optional in passphrase_cb and progress_cb.
Allowed None for callbacks to unset ones set previously.
Removed cleanup of exception in callbacks - now just retrieve the error code.
Added prev_bad parameter in passphrase_cb since it can be used in change password protocols.
Updated examples to follow new sets of arguments in callbacks
Updated op_edit to check if passed key is None (otherwise gpgme dumps core)
God rid of annoying warning "function declaration isn't a prototype" in helpers.c and helpers.h by changing from () to (void) list of arguments.

<table>
<thead>
<tr>
<th>File Path</th>
<th>Lines Added</th>
<th>Lines Deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyme/pyme/debian/changelog</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>pyme/examples/signverify.py</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>pyme/examples/t-edit.py</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>pyme/gpgme.i</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>pyme/helpers.c</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>pyme/helpers.h</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>pyme/pyme/callbacks.py</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>pyme/pyme/core.py</td>
<td>47</td>
<td>0</td>
</tr>
<tr>
<td>pyme/pyme/errors.py</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
<td>55</td>
</tr>
</tbody>
</table>

commit 8f0ab8138c7aa190936376ccbbf33bb09c64d6f1
Author: belyi <devnull@localhost>
Date: Thu Mar 31 23:50:59 2005 +0000

Added exception handling in passphrase_cb and edit_cb. If GPGMEError exception is thrown in those callbacks it will be converted into its core representation and return as an error code to the caller.
On all other exceptions error code will be GPG_ERR_GENERAL.

<table>
<thead>
<tr>
<th>File Path</th>
<th>Lines Added</th>
<th>Lines Deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyme/Makefile</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>pyme/pyme/debian/changelog</td>
<td>8</td>
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<tr>
<td>pyme/gpgme.i</td>
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<td></td>
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<td>pyme/helpers.c</td>
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<td>pyme/helpers.h</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>5</td>
<td>12</td>
</tr>
</tbody>
</table>

commit 9903d1fb11231e7e3d920e58d1eebf674c5988b07
Author: belyi <devnull@localhost>
Date: Thu Mar 31 05:12:15 2005 +0000
Remove workaround from Context.wait() method since the bug report and patch fixing gpgme_wait's behavior is sent to GPMGE developers already. Added errorcheck into op_edit() so that it can report an error.

```
pyme/pyme/core.py | 10 +++++-----
1 file changed, 5 insertions(+), 5 deletions(-)
```

commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:44:18 2005 +0000

Updated version number to 0.6.2 in version.py
Added examples/*.glade files into documentation package.

```
pyme/debian/examples | 1 +
pyme/pyme/version.py | 2 +- 2 files changed, 2 insertions(+), 1 deletion(-)
```

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:31:14 2005 +0000

Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.

```
pyme/debian/changelog | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)
```

commit ea4682009a506db91e5174ffd038fe7e4406b591
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:25:36 2005 +0000

Added handling of right mouse button click.
Changed reporting a string instead of a number on key generation failure.

```
pyme/examples/PyGtkGpgKeys.glade | 2 ++
pyme/examples/PyGtkGpgKeys.py | 30 +++++++++++++++++++++++++++++++++++++++-
2 files changed, 29 insertions(+), 3 deletions(-)
```

commit f65ad1a703d0098a3204b8527a54d253e5847e7
Author: belyi <devnull@localhost>
Date: Sat Mar 26 18:11:11 2005 +0000

Added another column indicating if a key has a secret part.
Automated generation of the View menu from the view field of the KeyColumn class.

```
pyme/examples/PyGtkGpgKeys.glade | 93 +--------------------------------------
```
Small change to the way gtk.TreeModel object is used.

Use more comprehensible error reporting since gpgme_strerror_r returns None all the time.

Improved PyGtkGpgKeys example to manage owner_trust on keys.
Added another example inter-edit.py which is just a helper to write scripts for Context.op_edit() command.

Updated PyGtkGpgKeys example to include import, export and reload functionality. Also added ability to remove number of keys simultaneously.
Rearranged how KeyColumn is used to avoid unnecessary sorts and duplication of information in different parts of the code.
commit 9f65749ccb1b7cab562e19c03f4371d5f7d94912
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:51:03 2005 +0000

    Added example of PyGTK+ and PyMe integration.
    For now it does only simple things - listing, deleting, and generating keys.

    pyme/examples/PyGtkGpgKeys.glade | 1321 ++++++++++++++++++++++++++++++++++++++
    pyme/examples/PyGtkGpgKeys.gladep |    8 +
    pyme/examples/PyGtkGpgKeys.py     |  424 ++++++++++++7
3 files changed, 1753 insertions(+)

commit 59e23f32c3b46413c9ec09e23e1a385a110fb103
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:44:58 2005 +0000

    Added wait method Context class which handles asynchronous calls a little
    bit better than the one generated by SWIG.

    pyme/debian/changelog |  7 +++++++
    pyme/gpgme.i          |  1 +
    pyme/pyme/core.py     | 40 ++++++++++++++++++++++++++++++++++++++++
3 files changed, 48 insertions(+)

commit 4c1b5259e4985df2cba0ae4fc09f12cd94603a75
Author: belyi <devnull@localhost>
Date:   Tue Mar 22 18:29:31 2005 +0000

    Added correct handling of Context.op_edit() method.
    Added example/t-edit.py showing usage for this method.
    Output of this example should match output of the tests/gpg/t-edit
    from the GPGME test suite.
    Remove unused static function from helpers.c

    pyme/examples/t-edit.py | 38 ++++++++++++++++++++++++++++++++++++++
    pyme/gpgme.i            | 36 ++++++++++++++++++++++++++++++++++++
    pyme/helpers.c          | 36 ------------------------------
    pyme/pyme/core.py       |  5 ++++
4 files changed, 78 insertions(+), 37 deletions(-)

commit dc587e215283b6ef2d594f86a7b2945f74f5155
Author: belyi <devnull@localhost>
Date:   Sat Mar 19 01:43:59 2005 +0000

    Update changelog to include note about deprecated function in 0.6.1 release

    pyme/debian/changelog     |  3 ++-
Remove deprecated functions from helpers.[ch]
Use gpgme-h-clean.py to remove deprecated functions and typedefs from the GPGME header file. This will reduce the number of unused methods.

commit 86de4b3ad77f980ccf7ba3462c85bbe1787d1fd
Author: belyi <devnull@localhost>
Date: Sat Mar 19 01:40:07 2005 +0000

Update copyright and author values in pyme/version.py
Create rules to build distribution files - one full and one without debian bits.

commit 2483efcb0d73c628c4d7717928a766c3b58f0aa
Author: belyi <devnull@localhost>
Date: Fri Mar 18 22:15:52 2005 +0000

Added package building for python2.4
Updated copyright notes to include myself and avoid confusion who's the maintainer. In John's own words: "I'd prefer to just step out of the picture". John's copyright notice left intact.
pyme/helpers.h | 4 ++--
pyme/pyme/__init__.py | 4 ++--
pyme/pyme/callbacks.py | 4 ++--
pyme/pyme/constants/data/encoding.py | 4 ++--
pyme/pyme/constants/event.py | 4 ++--
pyme/pyme/constants/import.py | 4 ++--
pyme/pyme/constants/keylist/mode.py | 4 ++--
pyme/pyme/constants/md.py | 4 ++--
pyme/pyme/constants/pk.py | 4 ++--
pyme/pyme/constants/protocol.py | 4 ++--
pyme/pyme/constants/sig/mode.py | 4 ++--
pyme/pyme/constants/sigsum.py | 4 ++--
pyme/pyme/constants/status.py | 4 ++--
pyme/pyme/constants/validity.py | 4 ++--
pyme/pyme/core.py | 4 ++--
pyme/pyme/errors.py | 4 ++--
pyme/pyme/util.py | 4 ++--
pyme/pyme/version.py | 2 +-
pyme/setup.py | 3 ++--
28 files changed, 96 insertions(+), 54 deletions(-)

commit 6dbbb252771133724b2879ed6d767cd708196dae
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 18:04:35 2005 +0000

  Remove the note about gpgme.i to be generated - it's been the primary source
  for some time.

  pyme/gpgme.i | 6 ------
1 file changed, 6 deletions(-)

commit 9d449fa4889c6bda6d14583c0625b8d5c4ffe759
Author: belyi <devnull@localhost>
Date:   Fri May 7 18:31:22 2004 +0000

  Added my copyright in genkey.py since there's enough changes made.
  Updated signverify to use only keys generated by genkey.py, to check
  that keys added to singers are able to sign and to check that the
  list of signers is not empty. The last check is necessary to prevent
  signing with the key of the user running signverify.py script.
  Added delkey.py script to delete keys generated by genkey.py
  Added exportimport.py example for key export/import.

  pyme/examples/delkey.py | 29 +++++++++++++++++
pyme/examples/exportimport.py | 76 ++++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/genkey.py | 6 +++-
pyme/examples/signverify.py | 18 ++++---
4 files changed, 119 insertions(+), 10 deletions(-)
commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b
Author: belyi <devnull@localhost>
Date:   Tue May 4 17:34:15 2004 +0000

Added examples/signverify.py for unattended sign/verify.
Updated examples/genkey.py to work correctly.
Updated gpgme.i to allow None as a value for gpgme_data_t

pyme/examples/genkey.py    |   14 ++-------
pyme/examples/signverify.py |  72 ++++++++++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i                |  21 +++++++-----
3 files changed, 87 insertions(+), 20 deletions(-)

commit ba45931abf530ab89ead46d7233ff1b62b629a18
Author: belyi <devnull@localhost>
Date:   Thu Apr 8 16:15:09 2004 +0000

Ensure that we support only python2.2 and up. :-)
Use generators in core.Context class which makes pyme.aux obsolete
Remove importing future nested_scopes since they are standard starting
with python2.2

pyme/pyme/__init__.py      |    5 ++---
pyme/pyme/aux.py          |   56 ---------------------------------------------------
pyme/pyme/core.py         |   15 +++++++++++---
pyme/pyme/errors.py       |    1 -
pyme/pyme/util.py         |    2 +-
5 files changed, 15 insertions(+), 64 deletions(-)

commit 4e9be5a55ecffa4da7ad5c192cc892eddaaa9586
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 03:53:30 2004 +0000

Small change to index.html
Added clean: rule to the Makefile

pyme-web/Makefile    |  3 +++
pyme-web/index.html |  6 +++---
2 files changed, 6 insertions(+), 3 deletions(-)

commit 2efb95176f4edf56ed61e9ac0c3aa09c56534df0
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 03:00:32 2004 +0000

Added Makefile rules for pyme module installation.

pyme/Makefile | 5 ++++
1 file changed, 4 insertions(+), 1 deletion(-)

commit 2b83d5d8b513029cc3e54f2fa502ccc85618104b
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:29:54 2004 +0000

Decorative change.

pyme/pyme/aux.py | 2 +
1 file changed, 1 insertion(+), 1 deletion(-)

commit e3478015d763a036c1d806ae01433fce59712204
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:25:55 2004 +0000

Added RCS Id: tags

pyme/Makefile | 1 +
pyme/examples/encrypt-to-all.py | 3 ++-
pyme/examples/genkey.py | 3 ++-
pyme/examples/sign.py | 3 ++-
pyme/examples/simple.py | 3 ++-
pyme/gpgme.i | 1 +
pyme/helpers.c | 1 +
pyme/helpers.h | 1 +
pyme/pyme/__init__.py | 1 +
pyme/pyme/aux.py | 1 +
pyme/pyme/callbacks.py | 1 +
pyme/pyme/consounds/__init__.py | 2 ++
pyme/pyme/consounds/data/__init__.py | 2 ++
pyme/pyme/consounds/data/encoding.py | 1 +
pyme/pyme/consounds/event.py | 1 +
pyme/pyme/consounds/import.py | 1 +
pyme/pyme/consounds/keylist/__init__.py | 2 ++
pyme/pyme/consounds/keylist/mode.py | 1 +
pyme/pyme/consounds/md.py | 1 +
pyme/pyme/consounds/pk.py | 1 +
pyme/pyme/consounds/protocol.py | 1 +
pyme/pyme/consounds/sig/__init__.py | 2 ++
pyme/pyme/consounds/sig/mode.py | 1 +
pyme/pyme/consounds/sigsum.py | 1 +
pyme/pyme/consounds/status.py | 1 +
pyme/pyme/consounds/validity.py | 1 +
pyme/pyme/core.py | 1 +
pyme/pyme/errors.py | 1 +
pyme/pyme/util.py | 1 +
pyme/pyme/version.py | 2 ++
30 files changed, 39 insertions(+), 4 deletions(-)
commit b3b3712645332c5bc3e8d9d557aab21d48ff0f86
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:07:36 2004 +0000

   Added Id: RCS tags to all files.

pyme-web/Makefile |  2 ++
pyme-web/index.html |  3 +++-
2 files changed, 4 insertions(+), 1 deletion(-)

commit 6aea2426beaa8c43e6f2310a37a2737c0c3a1b5
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 01:50:55 2004 +0000

   Update example on the init pyme.html page to match simple.py example.
   Fix core.py to use getcode() instead of getvalue() method of the exception.

pyme/pyme/__init__.py | 22 ++++++++++++++++++-
pyme/pyme/core.py     |  4 ++--
2 files changed, 16 insertions(+), 10 deletions(-)

commit dee337455fffd624d3f83e1c159c4bb2cefc692c9
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 20:32:29 2004 +0000

   Added Makefile to simplify publishing web files.

pyme-web/Makefile |  7 +++++++
1 file changed, 7 insertions(+)

commit af7129bba8260697d85c2ddb434562e8a80b62d8
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 20:15:53 2004 +0000

   Added minimum of formatting and SF icon.

pyme-web/index.html | 18 +++++++++++++++++--
1 file changed, 11 insertions(+), 7 deletions(-)

commit 2e64dcbf99cee796b51667b04d8961e390edde87
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 18:30:09 2004 +0000

   Initial revision

pyme-web/index.html | 33 +++++++++++++++++++++++++++++++++++
1 file changed, 33 insertions(+)

---
Update examples and package information on the initial pyme doc page.

```
pyme/pyme/__init__.py | 27 ++++++++++++++++++++++++-------
1 file changed, 12 insertions(+), 15 deletions(-)
```

commit b2d31b0bfbdff5247d6db4e3e95140cc1b1f19
Author: belyi <devnull@localhost>
Date:  Sat Mar 20 04:47:42 2004 +0000

Deleted unnecessary files.
Updated debian/control to remove dependency on python-xml package since there's none now.
Move example files from 'doc' into separate control file.
Update debian/rules to build documentation from *.py files and to exclude CVS directories from the installation.

```
pyme/Makfile             |  26 +++++-
pyme/debian/control      |   8 ++--
pyme/debian/docs         |   1 -
pyme/debian/ex.package.doc-base | 22 ------
pyme/debian/examples     |   1 +
pyme/debian/manpage.1.ex |  60 -----------
pyme/debian/manpage.sgml.ex | 152 ----------------------------------------
pyme/debian/rules        |  12 ++--
8 files changed, 15 insertions(+), 267 deletions(-)
```

commit 1b517dd9b82a433499b4696b06d94d756cd36e53
Author: belyi <devnull@localhost>
Date:  Sat Mar 20 02:59:15 2004 +0000

Remove doc/gpgme directory containing GPGME documentation since this belongs to a different project. Need to add reference in our documentation.

```
pyme/doc/gpgme/fdl.texi  | 402 ------
pyme/doc/gpgme/gpl.texi   | 3372 ---------------------------------------
pyme/doc/gpgme/gpl.init   | 397 ------
pyme/doc/gpgme/version.texi |  4 -
4 files changed, 4175 deletions(-)
```

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673
Author: belyi <devnull@localhost>
Date:  Sat Mar 20 02:45:03 2004 +0000
Change debian/rules to generate files by swig during build and to cleanup those files on 'clean' rule.

Plus, leave generated gpgme_wrap.c in the root directory instead of moving it into subdirectory 'generated'.

commit 545b3d90d445c5c78e8d72b2c1780863e02c789a
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 02:18:01 2004 +0000

Initial revision

pyme/COPYING | 340 ++++
pyme/ChangeLog | 802 +++++++
pyme/Makefile | 79 +
pyme/debian/README.Debian | 6 +
pyme/debian/changelog | 19 +
pyme/debian/control | 68 +
pyme/debian/copyright | 27 +
pyme/debian/dirs | 2 +
pyme/debian/docs | 2 +
pyme/debian/ex.package.doc-base | 22 +
pyme/debian/manpage.1.ex | 60 +
pyme/debian/manpage.sgml.ex | 152 ++
pyme/debian/postinst.ex | 48 +
pyme/debian/postrm.ex | 38 +
pyme/debian/preinst.ex | 44 +
pyme/debian/prerm.ex | 39 +
pyme/debian/rules | 130 ++
pyme/debian/setup.cfg-2.2 | 8 +
pyme/debian/setup.cfg-2.3 | 8 +
pyme/doc/gpgme/fdl.texi | 402 ++++
pyme/doc/gpgme/gpgme.texi | 3372 ++++++++++++++++++++++++++++++
pyme/doc/gpgme/gpl.texi | 397 ++++
pyme/doc/gpgme/version.texi | 4 +
pyme/examples/encrypt-to-all.py | 63 +
pyme/examples/genkey.py | 55 +
pyme/examples/sign.py | 28 +
pyme/examples/simple.py | 44 +
pyme/gpgme.i | 191 ++
pyme/helpers.c | 139 ++
pyme/helpers.h | 29 +
pyme/pyme/__init__.py | 134 ++
pyme/pyme/aux.py | 55 +
commit a3d5a442dc713b6c4d6fc4134db5b47e379dc41d
Author: root <devnull@localhost>
Date:   Fri Mar 19 14:12:30 2004 +0000

initial checkin
A Short History of the GPGME bindings for Python

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version: @tab 0.0.1
@item GPGME Version:
The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG. Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of
the original PyME release in Python 2.6 and 2.7 (available via PyPI).

@node Coming full circle
@section Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of `pyme3`.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The `pyme3` module was renamed to `gpg` and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

@node Relics of the past
@chapter Relics of the past

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

@menu
* The Annoyances of Git::
* The Perils of PyPI::
@end menu

@node The Annoyances of Git
@section The Annoyances of Git

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the `lang/` directory, along with a copy of the entire git log up to that point as a separate file within the `lang/python/docs/` directory. The entire PyME git log and other preceding VCS logs are
located in the `gpgme/lang/python/docs/old-commits.log` file."
As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

@node The Perils of PyPI
@section The Perils of PyPI

The early port of the Python 2 `pyme` module as `pyme3` was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from `pyme3` to `gpg`, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

@enumerate
@item
`gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library`
@item
`pyme (0.9.0) - Python support for GPGME GnuPG cryptography library`
@end enumerate

@menu
* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::
@end menu

@node GPG 180 - Python bindings for GPGME GnuPG cryptography library
@section GPG 180 - Python bindings for GPGME GnuPG cryptography library

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If
you have GPGME 1.8.0 installed and only 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.
What's New

* New in GPGME 1130::

Last time the most obviously new thing was adding the @emph{What's New} section to the HOWTO. Now it's moving it out of the HOWTO.
Additions since GPGME 1.12.0 include:

- Moving the `What's New` section out of the basic GPGME document and into its own file so as to more readily include other documents beyond that HOWTO.
- Moving the preceding, archival, segments into another file.
- Added `gpg.version.versionintlist` to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the `-betaN` part).
- Added expanded detail on issues pertaining to installing for Windows users.
- Bindings enter maintenance mode from January, 2019.
- Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.
- The import-keys-hkp.py example script, which uses the `hkp4py` module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

Using gpgme.js
---------------
At first, make sure that the environment you want to use gpgme.js in has access and permissions for nativeMessaging, and gpgme-json installed. For details, see the README.

The library itself is started via the `init` method. This will test the nativeMessaging connection, and then resolve into an Object offering the top level API:

* [encrypt](#encrypt)
* [decrypt](#decrypt)
gpgmejs.init()
    .then(function(GPGME) {
      // using GPGME
    }, function(error){
      // error handling;
    });

All methods that require communication with nativeMessaging are asynchronous, using Promises. Rejections will be instances of \{@link GPGME_Error\}.

An exception are Keys, which can be initialized in a 'sync' mode, allowing them to be cached and used synchronously until manually refreshed.

**Keyring and Keys**

----------
The gnupg keys can be accessed via the [Keyring][@link GPGME_Keyring].

The Keyring offers the methods for accessing information on all Keys known to gnupg.

**Due to security constraints, the javascript-binding currently only offers limited support for secret-Key interaction.**

The existence of secret Keys is not secret, and those secret Keys can be used for signing, but Operations that may expose, modify or delete secret Keys are not supported.

* [getKeysArmored][@link GPGME_Keyring#getKeysArmored]
* [getKeys][@link GPGME_Keyring#getKeys]
* [getDefaultKey][@link GPGME_Keyring#getDefaultKey]
* [generateKey][@link GPGME_Keyring#generateKey]
* [deleteKey][@link GPGME_Keyring#deleteKey]

For a list of the authors of the source code of GPGME, please see the file AUTHORS. The following people supported GPGME development in various ways (for example by finding bugs or giving advice), and we want to thank them for their help. If we forgot you, please let us know.

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---

You should have received a copy of the GNU General Public License
along with GPGME; if not, write to the Free Software Foundation,
(in-package :gpgme)

(include "errno.h" "sys/types.h")

(constant (+ebadf+ "EBADF"))

(ctype off-t "off_t")
(ctype size-t "size_t")
(ctype ssize-t "ssize_t")

(cvar ("errno" *errno*) :int)

# This is a template. The dist target uses it to create the real file.
Summary: GPGME - GnuPG Made Easy
Name: gpgme
Version: 1.13.1
Release: 1
URL: https://gnupg.org/gpgme.html
Source: https://www.gnupg.org/ftp/gcrypt/gpgme/%{name}-%{version}.tar.gz
Group: Development/Libraries
Copyright: GPL
BuildRoot: %{_tmppath}/%{name}-%{version}
BuildRequires: make
Prereq: /sbin/ldconfig /sbin/install-info
Requires: gnupg

%description
GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier
for applications. It provides a High-Level Crypto API for encryption,
decryption, signing, signature verification and key management.

%prep
%setup -q

%build
CFLAGS="$SRPM_OPT_FLAGS"; export CFLAGS
./configure --prefix=/usr
make

%install
rm -fr $RPMS_BUILD_ROOT
mkdir -p $RPMS_BUILD_ROOT
make install prefix=$RPMS_BUILD_ROOT/usr
infodir=$RPMS_BUILD_ROOT%{_infodir}
rm -f $RPMS_BUILD_ROOT%{_infodir}/dir
This document provides basic instruction in how to use the GPGME Python bindings to programmatically leverage the GPGME library.

**Python 2 versus Python 3**

Though the GPGME Python bindings themselves provide support for both Python 2 and 3, the focus is unequivocally on Python 3 and specifically from Python 3.4 and above. As a consequence all the examples and instructions in this guide use Python 3 code.

Much of it will work with Python 2, but much of it also deals with Python 3 byte literals, particularly when reading and writing data. Developers concentrating on Python 2.7, and possibly even 2.6, will need to make the appropriate modifications to support the older string and unicode types as opposed to bytes.

There are multiple reasons for concentrating on Python 3; some of which relate to the immediate integration of these bindings, some of which relate to longer term plans for both GPGME and the python bindings and some of which relate to the impending EOL period for Python 2.7. Essentially, though, there is little value in tying the bindings to a version of the language which is a dead end and the advantages offered by Python 3 over Python 2 make handling the data types with which GPGME deals considerably easier.

**Examples**
All of the examples found in this document can be found as Python 3 scripts in the `lang/python/examples/howto` directory.

** Unofficial Drafts

In addition to shipping with each release of GPGME, there is a section on locations to read or download [[#draft-editions][draft editions]] of this document from at the end of it. These are unofficial versions produced in between major releases.

** What's New

Full details of what is new are now available in the [[file:what-is-new.org][What's New]] file and archives of the preceding /What's New/ sections are available in the [[file:what-was-new][What Was New]] file.

*** New in GPGME 1130

See the [[file:what-is-new#new-stuff-1-13-0][What's New]] document for what is new in version 1.13.0.

*** New in GPGME 1120

See the [[file:what-was-new#new-stuff-1-12-0][What Was New]] document for what was new in version 1.12.0.

* GPGME Concepts

** A C API
Unlike many modern APIs with which programmers will be more familiar with these days, the GPGME API is a C API. The API is intended for use by C coders who would be able to access its features by including the gpgme.h header file with their own C source code and then access its functions just as they would any other C headers.

This is a very effective method of gaining complete access to the API and in the most efficient manner possible. It does, however, have the drawback that it cannot be directly used by other languages without some means of providing an interface to those languages. This is where the need for bindings in various languages stems.

**Python bindings**

The Python bindings for GPGME provide a higher level means of accessing the complete feature set of GPGME itself. It also provides a more pythonic means of calling these API functions.

The bindings are generated dynamically with SWIG and the copy of gpgme.h generated when GPGME is compiled.

This means that a version of the Python bindings is fundamentally tied to the exact same version of GPGME used to generate that copy of gpgme.h.

**Difference between the Python bindings and other GnuPG Python packages**

There have been numerous attempts to add GnuPG support to Python over the years. Some of the most well known are listed here, along with what differentiates them.

***The python-gnupg package maintained by Vinay Sajip***
This is arguably the most popular means of integrating GPG with Python. The package utilises the `subprocess` module to implement wrappers for the `gpg` and `gpg2` executables normally invoked on the command line (`gpg.exe` and `gpg2.exe` on Windows).

The popularity of this package stemmed from its ease of use and capability in providing the most commonly required features.

Unfortunately it has been beset by a number of security issues in the past; most of which stemmed from using unsafe methods of accessing the command line via the `subprocess` calls. While some effort has been made over the last two to three years (as of 2018) to mitigate this, particularly by no longer providing shell access through those `subprocess` calls, the wrapper is still somewhat limited in the scope of its GnuPG features coverage.

The `python-gnupg` package is available under the MIT license.

*** The gnupg package created and maintained by Isis Lovecruft

In 2015 Isis Lovecruft from the Tor Project forked and then re-implemented the `python-gnupg` package as `gnupg`. This new package also relied on `subprocess` to call the `gpg` or `gpg2` binaries, but did so somewhat more securely.

The naming and version numbering selected for this package, however, resulted in conflicts with the original `python-gnupg` and since its functions were called in a different manner to `python-gnupg`, the release of this package also resulted in a great deal of consternation when people installed what they thought was an upgrade that subsequently broke the code relying on it.

The `gnupg` package is available under the GNU General Public License version 3.0 (or any later version).

*** The PyME package maintained by Martin Albrecht

This package is the origin of these bindings, though they are somewhat different now. For details of when and how the PyME package was
The PyME package was first released in 2002 and was also the first attempt to implement a low level binding to GPGME. In doing so it provided access to considerably more functionality than either the =python-gnupg= or =gnupg= packages.

The PyME package is only available for Python 2.6 and 2.7.

Porting the PyME package to Python 3.4 in 2015 is what resulted in it being folded into the GPGME project and the current bindings are the end result of that effort.

The PyME package is available under the same dual licensing as GPGME itself: the GNU General Public License version 2.0 (or any later version) and the GNU Lesser General Public License version 2.1 (or any later version).

* GPGME Python bindings installation

** No PyPI

Most third-party Python packages and modules are available and distributed through the Python Package Installer, known as PyPI.

Due to the nature of what these bindings are and how they work, it is infeasible to install the GPGME Python bindings in the same way.

This is because the bindings use SWIG to dynamically generate C bindings against =gpgme.h= and =gpgme.h= is generated from =gpgme.h.in= at compile time when GPGME is built from source. Thus to include a package in PyPI which actually built correctly would require either statically built libraries for every architecture bundled with it or a full implementation of C for each architecture.

See the additional notes regarding [#snafu-cffi][CFFI and SWIG]] at the end of this section for further details.

** Requirements
The GPGME Python bindings only have three requirements:

1. A suitable version of Python 2 or Python 3. With Python 2 that means CPython 2.7 and with Python 3 that means CPython 3.4 or higher.
2. [[https://www.swig.org][SWIG]].
3. GPGME itself. Which also means that all of GPGME’s dependencies must be installed too.

*** Recommended Additions

Though none of the following are absolute requirements, they are all recommended for use with the Python bindings. In some cases these recommendations refer to which version(s) of CPython to use the bindings with, while others refer to third party modules which provide a significant advantage in some way.

1. If possible, use Python 3 instead of 2.
2. Favour a more recent version of Python since even 3.4 is due to reach EOL soon. In production systems and services, Python 3.6 should be robust enough to be relied on.
3. If possible add the following Python modules which are not part of the standard library: [[http://docs.python-requests.org/en/latest/index.html][Requests]], [[https://cython.org/][Cython]], [[https://pendulum.eustace.io/][Pendulum]] and [[https://github.com/Selfnet/hkp4py][hkp4py]].

Chances are quite high that at least the first one and maybe two of those will already be installed.

Note that, as with Cython, some of advanced use case scenarios will bring with them additional requirements. Most of these will be fairly well known and commonly installed ones, however, which are in many cases likely to have already been installed on many systems or be familiar to Python programmers.

** Installation
Installing the Python bindings is effectively achieved by compiling and installing GPGME itself.

Once SWIG is installed with Python and all the dependencies for GPGME are installed you only need to confirm that the version(s) of Python you want the bindings installed for are in your $PATH$.

By default GPGME will attempt to install the bindings for the most recent or highest version number of Python 2 and Python 3 it detects in $PATH$. It specifically checks for the =python= and =python3= executables first and then checks for specific version numbers.

For Python 2 it checks for these executables in this order: =python=, =python2= and =python2.7=.

For Python 3 it checks for these executables in this order: =python3=, =python3.7=, =python3.6=, =python3.5= and =python3.4=. [fn:2]

On systems where =python= is actually =python3= and not =python2= it may be possible that =python2= may be overlooked, but there have been no reports of that actually occurring as yet.

In the three months or so since the release of Python 3.7.0 there has been extensive testing and work with these bindings with no issues specifically relating to the new version of Python or any of the new features of either the language or the bindings. This has also been the case with Python 3.7.1rc1. With that in mind and given the release of Python 3.7.1 is scheduled for around the same time as GPGME 1.12.0, the order of preferred Python versions has been changed to move Python 3.7 ahead of Python 3.6.

*** Installing GPGME
:PROPERTIES:
:CUSTOM_ID: install-gpgme
:END:

See the GPGME =README= file for details of how to install GPGME from source.

** Known Issues
:PROPERTIES:
:CUSTOM_ID: snafu
:END:

There are a few known issues with the current build process and the
Python bindings. For the most part these are easily addressed should they be encountered.

*** Breaking Builds

Occasionally when installing GPGME with the Python bindings included it may be observed that the =make= portion of that process induces a large very number of warnings and, eventually errors which end that part of the build process. Yet following that with =make check= and =make install= appears to work seamlessly.

The cause of this is related to the way SWIG needs to be called to dynamically generate the C bindings for GPGME in the first place. So the entire process will always produce =lang/python/python2-gpg/= and =lang/python/python3-gpg/= directories. These should contain the build output generated during compilation, including the complete bindings and module installed into =site-packages=.

Occasionally the errors in the early part or some other conflict (e.g. not installing as */root/* or */su/*) may result in nothing being installed to the relevant =site-packages= directory and the build directory missing a lot of expected files. Even when this occurs, the solution is actually quite simple and will always work.

That solution is simply to run the following commands as either the *root* user or prepended with =sudo -H=[fn:3] in the =lang/python/= directory:

```
#+BEGIN_SRC shell
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py install
#+END_SRC
```

Yes, the build command does need to be run twice. Yes, you still need to run the potentially failing or incomplete steps during the =configure=, =make= and =make install= steps with installing GPGME. This is because those steps generate a lot of essential files needed, both by and in order to create, the bindings (including both the =setup.py= and =gpgme.h= files).

**** IMPORTANT Note

:PROPERTIES:
If specifying a selected number of languages to create bindings for, try to leave Python last. Currently the majority of the other language bindings are also preceding Python of either version when listed alphabetically (not counting the Qt bindings).

If Python is set to precede one of the other languages then it is possible that the errors described here may interrupt the build process before generating bindings for those other languages. In these cases it may be preferable to configure all preferred language bindings separately with alternative =configure= steps for GPGME using the =--enable-languages=$LANGUAGE= option.

Alternatively =make= (or =gmake=, depending on your platform) may be run with the the =-k= option, which tells make to keep going even if errors are encountered. In that case the failure of one language's set of bindings to build should not hamper another language's bindings to build.

*** Reinstalling Responsibly

Regardless of whether you're installing for one version of Python or several, there will come a point where reinstallation is required.

With most Python module installations, the installed files go into the relevant site-packages directory and are then forgotten about. Then the module is upgraded, the new files are copied over the old and that's the end of the matter.

While the same is true of these bindings, there have been intermittent issues observed on some platforms which have benefited significantly from removing all the previous installations of the bindings before installing the updated versions.

Removing the previous version(s) is simply a matter of changing to the relevant =site-packages= directory for the version of Python in question and removing the =gpg/= directory and any accompanying egg-info files for that module.

In most cases this will require root or administration privileges on the system, but the same is true of installing the module in the first place.
For a variety of reasons it may be either necessary or just preferable to install the bindings to alternative installed Python versions which meet the requirements of these bindings.

On POSIX systems this will generally be most simply achieved by running the manual installation commands (build, build, install) as described in the previous section for each Python installation the bindings need to be installed to.

As per the SWIG documentation: the compilers, libraries and runtime used to build GPGME and the Python Bindings *must* match those used to compile Python itself, including the version number(s) (at least going by major version numbers and probably minor numbers too).

On most POSIX systems, including OS X, this will very likely be the case in most, if not all, cases.

Note that from GPGME ([https://dev.gnupg.org/rMff6ff616aea6f59b7f2ce1176492850ecdf3851e][1.12.1]) the default installation installs to each version of Python it can find first. That is that it will currently install for the first copies of Python versions 2.7, 3.4, 3.5, 3.6, 3.7 and 3.8 (dev branch) that it finds. Usually this will be in the same prefix as GPGME itself, but is dictated by the =$PATH= when the installation is performed. The above instructions can still be performed on other python installations which the installer does not find, including alternative prefixes.

There are semi-regular reports of Windows users having considerable difficulty in installing and using the Python bindings at all. Very often, possibly even always, these reports come from Cygwin users and/or MinGW users and/or Msys2 users. Though not all of them have been confirmed, it appears that these reports have also come from people who installed Python using the Windows installer files from the [[https://python.org][Python website]] (i.e. mostly MSI installers, sometimes self-extracting =.exe= files).
The Windows versions of Python are not built using Cygwin, MinGW or Msys2; they're built using Microsoft Visual Studio. Furthermore the version used is considerably more advanced than the version which MinGW obtained a small number of files from many years ago in order to be able to compile anything at all. Not only that, but there are changes to the version of Visual Studio between some micro releases, though that is particularly the case with Python 2.7, since it has been kept around far longer than it should have been.

There are two theoretical solutions to this issue:

1. Compile and install the GnuPG stack, including GPGME and the Python bindings using the same version of Microsoft Visual Studio used by the Python Foundation to compile the version of Python installed.

   If there are multiple versions of Python then this will need to be done with each different version of Visual Studio used for those versions of Python.

2. Compile and install Python using the same tools used by choice, such as MinGW or Msys2.

   Do *not* use the official Windows installer for Python unless following the first method.

   In this type of situation it may even be for the best to accept that there are less limitations on permissive software than free software and simply opt to use a recent version of the Community Edition of Microsoft Visual Studio to compile and build all of it, no matter what.

   Investigations into the extent or the limitations of this issue are ongoing.

   The following table lists the version of Microsoft Visual Studio which needs to be used when compiling GPGME and the Python bindings with each version of the CPython binary released [[https://www.python.org/downloads/windows/][for Windows]]:

<table>
<thead>
<tr>
<th>CPython</th>
<th>Microsoft product name</th>
<th>runtime filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7.6</td>
<td>Visual Studio 2008</td>
<td>MSVCR90.DLL</td>
</tr>
<tr>
<td>3.4.0</td>
<td>Visual Studio 2010</td>
<td>MSVCR100.DLL</td>
</tr>
<tr>
<td>3.5.0</td>
<td>Visual Studio 2015</td>
<td><em>see below</em></td>
</tr>
<tr>
<td>3.6.0</td>
<td>Visual Studio 2015</td>
<td><em>see below</em></td>
</tr>
<tr>
<td>3.7.0</td>
<td>Visual Studio 2017*</td>
<td><em>see below</em></td>
</tr>
</tbody>
</table>

   It is important to note that MingW and Msys2 ship with the Visual C...
runtime from Microsoft Visual Studio 2005 and are thus *incompatible* with all the versions of CPython which can be used with the GPGME Python bindings.

It is also important to note that from CPython 3.5 onwards, the Python Foundation has adopted the reworking of the Visual C runtime which was performed for Visual Studio 2015 and aimed at resolving many of these kinds of issues. Much greater detail on these issues and the correct file(s) to link to are available from Matthew Brett's invaluable page, [[https://matthew-brett.github.io/pydagogue/python_msvc.html][Using Microsoft Visual C with Python]]. It is also worth reading the Microsoft Developer Network blog post on [[http://blogs.msdn.com/b/vcblog/archive/2015/03/03/introducing-the-universal-crt.aspx][the universal CRT]] and Steve Dower's blog posts on Python extensions ([[http://stevedower.id.au/blog/building-for-python-3-5][part 1]] and [[http://stevedower.id.au/blog/building-for-python-3-5-part-two][part 2]]).

The second of those two posts by Steve Dower contains the details of specific configuration options required for compiling anything to be used with official CPython releases. In addition to those configuration and compiler settings to use, the versions of Visual Studio prior to Visual Studio 2015 did not support 64-bit systems by default. So compiling a 64-bit version of these bindings for a 64-bit version of CPython 2.7 or 3.4 requires additional work.

In addition to the blog posts, the [[https://wiki.python.org/moin/WindowsCompilers][Windows compilers]] wiki page on the CPython wiki is another essential reference on the relevant versions of Visual Studio to use and the degree of compatibility with CPython releases.

Eventually someone will ask why there isn't an installable binary for Windows, which the GPGME of the licenses do not preclude as long as the source code is available in conjunction with such a release.

The sheer number of versions of Visual Studio in conjunction with differing configuration options depending on the target Windows version and whether the architecture is 64-bit or 32-bit makes it difficult to provide a correct binary installer for Windows users. At the bare minimum doing so would require the GnuPG project compile ten different versions of the bindings with each release; both 32-bit and 64-bit versions for CPython 2.7 and 3.4, with 64-bit versions for both x86-64 (i.e. Intel and AMD) and ARM architectures for CPython 3.5, 3.6, 3.7 and later releases. That's the bare *minimum*, it'd probably be higher.

Additionally, with only a binary installation used in conjunction with the CPython installer from =python.org= the advanced options available which utilise [[#cython][Cython]] will not be able to be used at all. Cython
depends on being able to compile the C code it generates and that too would need to utilise a matching runtime to both the installed version of CPython and these bindings in order to work with the bindings.

Considering all of that, what do we recommend?

1. Use a recent version of CPython; at least 3.5, but ideally 3.6 or later.

2. Use Visual Studio 2015 or the standalone build tools for Visual Studio 2017 (or later).

3. Compile both CPython and GPGME with these bindings using the tools selected in step 2.

4. Ignore MingW, Msys2 and the official CPython binary installers.

5. Be thankful the answer to this question wasn't simply to say something like, install Linux or install FreeBSD (or even Apple's OS X).

*** CFFI is the Best and GPGME should use it instead of SWIG

There are many reasons for favouring [[https://cffi.readthedocs.io/en/latest/overview.html][CFFI]] and proponents of it are quite happy to repeat these things as if all it would take to switch from SWIG to CFFI is repeating that list as if it were a new concept.

The fact is that there are things which Python's CFFI implementation cannot handle in the GPGME C code. Beyond that there are features of SWIG which are simply not available with CFFI at all. SWIG generates the bindings to Python using the =gpgme.h= file, but that file is not a single version shipped with each release, it too is generated when GPGME is compiled.

CFFI is currently unable to adapt to such a potentially mutable codebase. If there were some means of applying SWIG's dynamic code generation to produce the Python/CFFI API modes of accessing the GPGME libraries (or the source source code directly), but such a thing does not exist yet either and it currently appears that work is needed in at least one of CFFI's dependencies before any of this can be addressed.

So if you're a massive fan of CFFI; that's great, but if you want this
project to switch to CFFI then rather than just insisting that it should, I'd suggest you volunteer to bring CFFI up to the level this project needs.

If you're actually seriously considering doing so, then I'd suggest taking the =gpgme-tool.c= file in the GPGME =src/= directory and getting that to work with any of the CFFI API methods (not the ABI methods, they'll work with pretty much anything). When you start running into trouble with "ifdefs" then you'll know what sort of things are lacking. That doesn't even take into account the amount of work saved via SWIG's code generation techniques either.

*** Virtualised Environments

It is fairly common practice amongst Python developers to, as much as possible, use packages like virtualenv to keep various things that are to be installed from interfering with each other. Given how much of the GPGME bindings is often at odds with the usual pythonic way of doing things, it stands to reason that this would be called into question too.

As it happens the answer as to whether or not the bindings can be used with virtualenv, the answer is both yes and no.

In general we recommend installing to the relevant path and matching prefix of GPGME itself. Which means that when GPGME, and ideally the rest of the GnuPG stack, is installed to a prefix like =/usr/local= or =/opt/local= then the bindings would need to be installed to the main Python installation and not a virtualised abstraction. Attempts to separate the two in the past have been known to cause weird and intermittent errors ranging from minor annoyances to complete failures in the build process.

As a consequence we only recommend building with and installing to the main Python installations within the same prefix as GPGME is installed to or which are found by GPGME's configuration stage immediately prior to running the make commands. Which is exactly what the compiling and installing process of GPGME does by default.

Once that is done, however, it appears that a copy of the compiled module may be installed into a virtualenv of the same major and minor version matching the build. Alternatively it is possible to utilise a =sites.pth= file in the =site-packages/= directory of a virtualenv installation, which links back to the system installations
corresponding directory in order to import anything installed system wide. This may or may not be appropriate on a case by case basis.

Though extensive testing of either of these options is not yet complete, preliminary testing of them indicates that both are viable as long as the main installation is complete. Which means that certain other options normally restricted to virtual environments are also available, including integration with pythonic test suites (e.g. [https://docs.pytest.org/en/latest/index.html][pytest]) and other large projects.

That said, it is worth reiterating the warning regarding non-standard installations. If one were to attempt to install the bindings only to a virtual environment without somehow also including the full GnuPG stack (or enough of it as to include GPGME) then it is highly likely that errors would be encountered at some point and more than a little likely that the build process itself would break.

If a degree of separation from the main operating system is still required in spite of these warnings, then consider other forms of virtualisation. Either a virtual machine (e.g. [https://www.virtualbox.org/][VirtualBox]), a hardware emulation layer (e.g. [https://www.qemu.org/][QEMU]) or an application container (e.g. [https://www.docker.com/why-docker][Docker]).

Finally it should be noted that the limited tests conducted thus far have been using the =virtualenv= command in a new directory to create the virtual python environment. As opposed to the standard =python3 -m venv= and it is possible that this will make a difference depending on the system and version of Python in use. Another option is to run the command =python3 -m virtualenv /path/to/install/virtual/thingy= instead.

*** Post installation

Following installation it is recommended to move the =post_installer.py= script from the =lang/python/examples/howto/= directory to the =lang/python/= directory and run it. This will fix or restore files needed by Sphinx which may be removed during a distribution build for release. It will also generate reST files from Org mode files with Pandoc and generate Texinfo files from Org mode files with GNU Emacs and Org mode (in batch mode). Additionally it will fix the UTF-8 declaration line in the Texinfo files (Emacs expects "UTF-8" to be "utf-8").
Before we can get to the fun stuff, there are a few matters regarding GPGME's design which hold true whether you're dealing with the C code directly or these Python bindings.

** No REST

The first part of which is or will be fairly blatantly obvious upon viewing the first example, but it's worth reiterating anyway. That being that this API is /*not*/ a REST API. Nor indeed could it ever be one.

Most, if not all, Python programmers (and not just Python programmers) know how easy it is to work with a RESTful API. In fact they've become so popular that many other APIs attempt to emulate REST-like behaviour as much as they are able. Right down to the use of JSON formatted output to facilitate the use of their API without having to retrain developers.

This API does not do that. It would not be able to do that and also provide access to the entire C API on which it's built. It does, however, provide a very pythonic interface on top of the direct bindings and it's this pythonic layer that this HOWTO deals with.

** Context

One of the reasons which prevents this API from being RESTful is that most operations require more than one instruction to the API to perform the task. Sure, there are certain functions which can be performed simultaneously, particularly if the result known or strongly anticipated (e.g. selecting and encrypting to a key known to be in the public keybox).

There are many more, however, which cannot be manipulated so readily: they must be performed in a specific sequence and the result of one operation has a direct bearing on the outcome of subsequent
operations. Not merely by generating an error either.

When dealing with this type of persistent state on the web, full of both the RESTful and REST-like, it's most commonly referred to as a session. In GPGME, however, it is called a context and every operation type has one.

* Working with keys

** Key selection

Selecting keys to encrypt to or to sign with will be a common occurrence when working with GPGMe and the means available for doing so are quite simple.

They do depend on utilising a Context; however once the data is recorded in another variable, that Context does not need to be the same one which subsequent operations are performed.

The easiest way to select a specific key is by searching for that key's key ID or fingerprint, preferably the full fingerprint without any spaces in it. A long key ID will probably be okay, but is not advised and short key IDs are already a problem with some being generated to match specific patterns. It does not matter whether the pattern is upper or lower case.

So this is the best method:

```python
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
```

This is passable and very likely to be common:

```python
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
```
k = gpg.Context().keylist(pattern="0x6ECB6AF0DEADBEEF")
keys = list(k)
#+END_SRC

And this is a really bad idea:

#+BEGIN_SRC python -i
import gpg

k = gpg.Context().keylist(pattern="0xDEADBEEF")
keys = list(k)
#+END_SRC

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

#+BEGIN_SRC python -i
import gpg

ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
#+END_SRC

*** Counting keys
:PROPERTIES:
  :CUSTOM_ID: howto-keys-counting
  :END:

Counting the number of keys in your public keybox (=pubring.kbx=), the format which has superseded the old keyring format (=pubring.gpg= and =secring.gpg=), or the number of secret keys is a very simple task.

#+BEGIN_SRC python -i
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("**


Number of secret keys: 0
Number of public keys: 1

NOTE: The [[#cython][Cython]] introduction in the [[#advanced-use][Advanced and Experimental]] section uses this same key counting code with Cython to demonstrate some areas where Cython can improve performance even with the bindings. Users with large public keyrings or keyboxes, for instance, should consider these options if they are comfortable with using Cython.

** Get key

An alternative method of getting a single key via its fingerprint is available directly within a Context with Context().get_key=. This is the preferred method of selecting a key in order to modify it, sign or certify it and for obtaining relevant data about a single key as a part of other functions; when verifying a signature made by that key, for instance.

By default this method will select public keys, but it can select secret keys as well.

This first example demonstrates selecting the current key of Werner Koch, which is due to expire at the end of 2018:

```
#+BEGIN_SRC python -i
import gpg
fingerprint = "80615870F5BAD690333686D0F2AD85AC1E42B367"
key = gpg.Context().get_key(fingerprint)
#+END_SRC
```

Whereas this example demonstrates selecting the author's current key with the =secret= key word argument set to =True=:

```
#+BEGIN_SRC python -i
import gpg
fingerprint = "DB4724E6FA4286C92B4E55C4321E4E2373590E5D"
key = gpg.Context().get_key(fingerprint, secret=True)
#+END_SRC
```
It is, of course, quite possible to select expired, disabled and revoked keys with this function, but only to effectively display information about those keys.

It is also possible to use both unicode or string literals and byte literals with the fingerprint when getting a key in this way.

** Importing keys

**PROPERTIES:

:CUSTOM_ID: howto-import-key

:END:

Importing keys is possible with the =key_import()= method and takes one argument which is a bytes literal object containing either the binary or ASCII armoured key data for one or more keys.

The following example retrieves one or more keys from the SKS keyservers via the web using the requests module. Since requests returns the content as a bytes literal object, we can then use that directly to import the resulting data into our keybox.

```python
#BEGIN_SRC python -i
import gpg
import os.path
import requests
c = gpg.Context()
url = "https://sks-keyservers.net/pks/lookup"
pattern = input("Enter the pattern to search for key or user IDs: ")
payload = {"op": "get", "search": pattern}

r = requests.get(url, verify=True, params=payload)
result = c.key_import(r.content)

if result is not None and hasattr(result, "considered") is False:
    print(result)
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was:  {0}
```
Number of keys revoked:  {1}
Number of new signatures:  {2}
Number of new subkeys:  {3}
Number of new user IDs:  {4}
Number of new secret keys:  {5}
Number of unchanged keys:  {6}

The key IDs for all considered keys were:
for i in range(num_keys):
    print("{0}\n".format(result.imports[i].fpr))
else:
    pass

NOTE: When searching for a key ID of any length or a fingerprint (without spaces), the SKS servers require the the leading =0x= indicative of hexadecimal be included. Also note that the old short key IDs (e.g. =0xDEADBEEF=) should no longer be used due to the relative ease by which such key IDs can be reproduced, as demonstrated by the Evil32 Project in 2014 (which was subsequently exploited in 2016).

Testing for whether a string in any given search is or may be a hexadecimal value which may be missing the leading =0x= is a simple matter of using a try/except statement which attempts to convert the string as hex to an integer and then back to hex; then using that to search with. Raising a ValueError simply results in treating the string as a string. This is the method and logic utilised in the =import-keys-hkp.py= script (see below).

*** Working with ProtonMail

Here is a variation on the example above which checks the constrained ProtonMail keyserver for ProtonMail public keys.

#+BEGIN_SRC python -i
import gpg
import requests
import sys

This script searches the ProtonMail key server for the specified key and
imports it.

```python

c = gpg.Context(armor=True)
url = "https://api.protonmail.ch/pks/lookup"
ksearch = []

if len(sys.argv) >= 2:
    keyterm = sys.argv[1]
else:
    keyterm = input("Enter the key ID, UID or search string: ")

if keyterm.count("@") == 2 and keyterm.startswith("@") is True:
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
    ksearch.append("{}@protonmail.com".format(keyterm[1:] bulb)
    ksearch.append("{}@protonmail.ch".format(keyterm[1:]))
    ksearch.append("{}@pm.me".format(keyterm[1:]))
elif keyterm.count("@") == 0:
    ksearch.append("{}@protonmail.com".format(keyterm))
    ksearch.append("{}@protonmail.ch".format(keyterm))
    ksearch.append("{}@pm.me".format(keyterm))
elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{}@protonmail.com".format(uid))
        ksearch.append("{}@protonmail.ch".format(uid))
        ksearch.append("{}@pm.me".format(uid))
elif keyterm.count("@") > 2:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{}@protonmail.com".format(uid))
        ksearch.append("{}@protonmail.ch".format(uid))
        ksearch.append("{}@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    payload = {"op": "get", "search": k}
    try:
        r = requests.get(url, verify=True, params=payload)
        if r.ok is True:
            result = c.key_import(r.content)
        elif r.ok is False:
            result = r.content
    except Exception as e:
```

---

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result = None

if result is not None and hasattr(result, "considered") is False:
    print("{0} for \{1\}".format(result.decode(), k))
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was: {0}
    
    With UIDs wholey or partially matching the following string:
    
    {1}
    
    Number of keys revoked: {2}
    Number of new signatures: {3}
    Number of new subkeys: {4}
    Number of new user IDs: {5}
    Number of new secret keys: {6}
    Number of unchanged keys: {7}
    
    The key IDs for all considered keys were:
    """.format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt,
            nochange))
    for i in range(num_keys):
        print(result.imports[i].fpr)
        print("")
    elif result is None:
        print(e)

#+END_SRC

Both the above example, [[../examples/howto/pmkey-import.py][pmkey-import.py]], and a version which prompts for an alternative GnuPG home directory, [[../examples/howto/pmkey-import-alt.py][pmkey-import-alt.py]], are available with the other examples and are executable scripts.

Note that while the ProtonMail servers are based on the SKS servers, their server is related more to their API and is not feature complete by comparison to the servers in the SKS pool. One notable difference being that the ProtonMail server does not permit non ProtonMail users to update their own keys, which could be a vector for attacking ProtonMail users who may not receive a key’s revocation if it had been compromised.
Performing the same tasks with the [[https://github.com/Selfnet/hkp4py][hkp4py module]] (available via PyPI) is not too much different, but does provide a number of options of benefit to end users. Not least of which being the ability to perform some checks on a key before importing it or not. For instance it may be the policy of a site or project to only import keys which have not been revoked. The hkp4py module permits such checks prior to the importing of the keys found.

```
#BEGIN_SRC python -i
import gpg
import hkp4py
import sys

c = gpg.Context()
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
results = []
keys = []

if len(sys.argv) > 2:
    pattern = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    pattern = sys.argv[1]
else:
    pattern = input("Enter the pattern to search for keys or user IDs: ")

if pattern is not None:
    try:
        key = server.search(hex(int(pattern, 16)))
        keyed = True
    except ValueError as ve:
        key = server.search(pattern)
        keyed = False

if key is not None:
    keys.append(key[0])
if keyed is True:
    try:
        fob = server.search(pattern)
    except:
        fob = None
    if fob is not None:
        # Further processing...
keys.append(fob[0])
else:
    pass
else:
    pass

for logrus in pattern.split():
    try:
        key = server.search(hex(int(logrus, 16)))
        hexed = True
    except ValueError as ve:
        key = server.search(logrus)
        hexed = False

if key is not None:
    keys.append(key[0])
if hexed is True:
    try:
        fob = server.search(logrus)
    except:
        fob = None
    if fob is not None:
        keys.append(fob[0])
    else:
        pass
else:
    pass

if len(keys) > 0:
    for key in keys:
        import_result = c.key_import(key.key_blob)
        results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print(result)
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was:  [0]
Number of keys revoked: {1}
Number of new signatures: {2}
Number of new subkeys: {3}
Number of new user IDs: {4}
Number of new secret keys: {5}
Number of unchanged keys: {6}

The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print(result.imports[i].fpr)
print("")
else:
    pass
```

Since the hkp4py module handles multiple keys just as effectively as one (=keys= is a list of responses per matching key), the example above is able to do a little bit more with the returned data before anything is actually imported.

*** Importing from ProtonMail with HKP for Python

Though this can provide certain benefits even when working with ProtonMail, the scope is somewhat constrained there due to the limitations of the ProtonMail keyserver.

For instance, searching the SKS keyserver pool for the term "gnupg" produces hundreds of results from any time the word appears in any part of a user ID. Performing the same search on the ProtonMail keyserver returns zero results, even though there are at least two test accounts which include it as part of the username.

The cause of this discrepancy is the deliberate configuration of that server by ProtonMail to require an exact match of the full email address of the ProtonMail user whose key is being requested. Presumably this is intended to reduce breaches of privacy of their users as an email address must already be known before a key for that address can be obtained.

**** Import from ProtonMail via HKP for Python Example no. 1
The following script is available with the rest of the examples under the somewhat less than original name, =pmkey-import-hkp.py=.

```python
# BEGIN_SRC python -i
import gpg
import hkp4py
import os.path
import sys

print("This script searches the ProtonMail key server for the specified key and imports it.

Usage:  pmkey-import-hkp.py [search strings]
")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
ksearch = []
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 2:
    keyterms = sys.argv[1:]
elif len(sys.argv) == 2:
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    key_term = input("Enter the key ID, UID or search string: ")
    keyterms = key_term.split()

for keyterm in keyterms:
    if keyterm.count("@") == 2 and keyterm.startwith("@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:]
    elif keyterm.count("@") == 1 and keyterm.startwith("@") is True:
        ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count("@") == 0:
        ksearch.append("{0}@protonmail.com".format(keyterm))
```

ksearch.append("{0}@protonmail.ch.format(keyterm))
ksearch.append("{0}@pm.me.format(keyterm))
elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com.format(uid))
ksearch.append("{0}@protonmail.ch.format(uid))
ksearch.append("{0}@pm.me.format(uid))
elif keyterm.count("@") > 2:
    uidlist = keyterm.split("@")
    for uid in uidlist:
        ksearch.append("{0}@protonmail.com.format(uid))
ksearch.append("{0}@protonmail.ch.format(uid))
ksearch.append("{0}@pm.me.format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: {0}".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
                try:
                    import_result = c.key_import(key.key_blob)
                except Exception as e:
                    import_result = c.key_import(key.key)
                else:
                    paradox.append(keys)
                    import_result = None
                    except Exception as e:
                        import_result = None
                        results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("{0} for {1}".format(result.decode(), k))
eelif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print(""
    The total number of keys considered for import was: {0}"")
With UIDs wholly or partially matching the following string:

```{1}
```

Number of keys revoked: {2}
Number of new signatures: {3}
Number of new subkeys: {4}
Number of new user IDs: {5}
Number of new secret keys: {6}
Number of unchanged keys: {7}

The key IDs for all considered keys were:
```
{0.format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt, 
nochange))
```  
for i in range(num_keys):
    print(result.imports[i].fpr)
    print('')
elif result is None:
    pass

**+END_SRC**

**** Import from ProtonMail via HKP for Python Example no. 2

:PROPERTIES:
:CUSTOM_ID: import-hkp4py-pm2
:END:

Like its counterpart above, this script can also be found with the rest of the examples, by the name pmkey-import-hkp-alt.py.

With this script a modicum of effort has been made to treat anything passed as a =homedir= which either does not exist or which is not a directory, as also being a possible user ID to check for. It's not guaranteed to pick up on all such cases, but it should cover most of them.

**+BEGIN_SRC python -i**
import gpg
import hkp4py
import os.path
import sys

print('"
This script searches the ProtonMail key server for the specified key and imports it. Optionally enables specifying a different GnuPG home directory.

Usage: pmkey-import-hkp.py [homedir] [search string]
or: pmkey-import-hkp.py [search string]

```python

import sys
import os
import gpg
import hkp4py

# Initialize GPG context
context = gpg.Context(armor=True)

# Initialize KeyServer
server = hkp4py.KeyServer("hkps://api.protonmail.ch")

# Initialize lists for key terms and results
keyterms = []
ksearch = []
allkeys = []
results = []
paradox = []
homeless = None

# Check command line arguments
if len(sys.argv) > 3:
    homedir = sys.argv[1]
    keyterms = sys.argv[2:]\nelif len(sys.argv) == 3:
    homedir = sys.argv[1]
    keyterm = sys.argv[2]
    keyterms.append(keyterm)
elif len(sys.argv) == 2:
    homedir = ""
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    keyterm = input("Enter the key ID, UID or search string: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
    keyterms.append(keyterm)

# Check homedir
if len(homedir) == 0:
    homedir = None
homeless = False

# Check the existence and type of the homedir
if homedir is not None:
    if homedir.startswith("~"):  # Home directory
        if os.path.exists(os.path.expanduser(homedir)) is True:
            if os.path.isdir(os.path.expanduser(homedir)) is True:
                context.home_dir = os.path.realpath(os.path.expanduser(homedir))
                homeless = True
            else:
                homeless = True
        else:
            homeless = True
    elif os.path.exists(os.path.realpath(homedir)) is True:
        if os.path.isdir(os.path.realpath(homedir)) is True:
            context.home_dir = os.path.realpath(homedir)
            homeless = True
        else:
            homeless = True
    else:
        homeless = True
```

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# First check to see if the homedir really is a homedir and if not, treat it as
# a search string.
if homeless is True:
    keyterms.append(homedir)
    c.home_dir = None
else:
    pass

for keyterm in keyterms:
    if keyterm.count("@") == 2 and keyterm.startswith("@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
    elif keyterm.count("@") == 1 and keyterm.startswith("@") is True:
        ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count("@") == 0:
        ksearch.append("{0}@protonmail.com".format(keyterm))
        ksearch.append("{0}@protonmail.ch".format(keyterm))
        ksearch.append("{0}@pm.me".format(keyterm))
    elif keyterm.count("@") == 2 and keyterm.startswith("@") is False:
        uidlist = keyterm.split("@")
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
    elif keyterm.count("@") > 2:
        uidlist = keyterm.split("@")
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
    else:
        ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: {0}".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
    except Exception as e:
        import_result = c.key_import(key.key_blob)
        except Exception as e:
            import_result = c.key_import(key.key)
else:
    paradox.append(keys)
    import_result = None
except Exception as e:
    import_result = None
results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("{0} for {1}".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""

        The total number of keys considered for import was: {0}
        
        With UIDs wholly or partially matching the following string:
        
        {1}

        Number of keys revoked: {2}
        Number of new signatures: {3}
        Number of new subkeys: {4}
        Number of new user IDs: {5}
        Number of new secret keys: {6}
        Number of unchanged keys: {7}

        The key IDs for all considered keys were:
        
        
        ***format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt,
        nochange))
        for i in range(num_keys):
            print(result.imports[i].fpr)
        print("")
        elif result is None:
            pass

** Exporting keys
:PROPERTIES:
:CUSTOM_ID: howto-export-key
:END:
Exporting keys remains a reasonably simple task, but has been separated into three different functions for the OpenPGP cryptographic engine. Two of those functions are for exporting public keys and the third is for exporting secret keys.

*** Exporting public keys

:PROPERTIES:
:CUSTOM_ID: howto-export-public-key
:END:

There are two methods of exporting public keys, both of which are very similar to the other. The default method, =key_export()=, will export a public key or keys matching a specified pattern as normal. The alternative, the =key_export_minimal()= method, will do the same thing except producing a minimised output with extra signatures and third party signatures or certifications removed.

```python
import gpg
import os.path
import sys

print("This script exports one or more public keys.
")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"): If os.path.exists(os.path.expanduser(homedir)) is True:
c.home_dir = os.path.expanduser(homedir)
else:
    pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass
try:
    result = c.key_export(pattern=logrus)
except:
    result = c.key_export(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass

It should be noted that the result will only return None when a search pattern has been entered, but has not matched any keys. When the search pattern itself is set to None this triggers the exporting of the entire public keybox.

#BEGIN_SRC python -i
import gpg
import os.path
import sys

print(""
This script exports one or more public keys in minimised form.
"")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
logrus = input("Enter the UID matching the key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):  
    if os.path.exists(os.path.expanduser(homedir)) is True:  
        c.home_dir = os.path.expanduser(homedir)  
    else:  
        pass  
elif os.path.exists(homedir) is True:  
    c.home_dir = homedir  
else:  
    pass

try:
    result = c.key_export_minimal(pattern=logrus)
except:
    result = c.key_export_minimal(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass

*** Exporting secret keys

Exporting secret keys is, functionally, very similar to exporting public keys; save for the invocation of =pinentry= via =gpg-agent= in order to securely enter the key's passphrase and authorise the export.

The following example exports the secret key to a file which is then set with the same permissions as the output files created by the command line secret key export options.

#+BEGIN_SRC python -i
import gpg
import os
import os.path
import sys

print("***")
This script exports one or more secret keys.

The gpg-agent and pinentry are invoked to authorise the export.

```
c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass
```
try:
    result = c.key_export_secret(pattern=logrus)
except:
    result = c.key_export_secret(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
    os.chmod(keyfile, 0o600)
else:
    pass

Alternatively the approach of the following script can be used. This longer example saves the exported secret key(s) in files in the GnuPG home directory, in addition to setting the file permissions as only readable and writable by the user. It also exports the secret key(s) twice in order to output both GPG binary (=.gpg=) and ASCII armoured (=.asc=) files.

```python
import gpg
import os
import os.path
import subprocess
import sys

print("""This script exports one or more secret keys as both ASCII armored and binary file formats, saved in files within the user's GPG home directory.

The gpg-agent and pinentry are invoked to authorise the export.
""")

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-dirs homedir"
else:
    gpgconfcmd = "gpgconf --list-dirs homedir"

a = gpg.Context(armor=True)
b = gpg.Context()
c = gpg.Context()

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
```
keyfile = sys.argv[1]
logrus = sys.argv[2]
homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
logrus = input("Enter the UID matching the secret key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the filename to save the secret key to: ")
logrus = input("Enter the UID matching the secret key(s) to export: ")
homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

if c.home_dir is not None:
    if c.home_dir.endswith("/"):
        gpgfile = "{0}{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "{0}{1}.asc".format(c.home_dir, keyfile)
    else:
        gpgfile = "{0}/{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "{0}/{1}.asc".format(c.home_dir, keyfile)
    else:
        if os.path.exists(os.environ["GNUPGHOME"]) is True:
            hd = os.environ["GNUPGHOME"]
        else:
            try:
```python
hd = subprocess.getoutput(gpgconfcmd)
except:
    process = subprocess.Popen(gpgconfcmd.split(),
        stdout=subprocess.PIPE)
    procom = process.communicate()
    if sys.version_info[0] == 2:
        hd = procom[0].strip()
    else:
        hd = procom[0].decode().strip()
gpgfile = "{0}/{1}.gpg".format(hd, keyfile)
ascfile = "{0}/{1}.asc".format(hd, keyfile)
try:
    a_result = a.key_export_secret(pattern=logrus)
    b_result = b.key_export_secret(pattern=logrus)
except:
    a_result = a.key_export_secret(pattern=None)
    b_result = b.key_export_secret(pattern=None)

if a_result is not None:
    with open(ascfile, "wb") as f:
        f.write(a_result)
        os.chmod(ascfile, 0o600)
else:
    pass

if b_result is not None:
    with open(gpgfile, "wb") as f:
        f.write(b_result)
        os.chmod(gpgfile, 0o600)
else:
    pass
```

---

### Sending public keys to the SKS Keyservers

As with the previous section on importing keys, the `hkp4py` module adds another option with exporting keys in order to send them to the public keyservers.

The following example demonstrates how this may be done.

```bash
#BEGIN_SRC python -i
import gpg
```
import hkp4py
import os.path
import sys

print("***
This script sends one or more public keys to the SKS keyservers and is 
essentially a slight variation on the export-key.py script.
***")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")

if len(sys.argv) > 2:
    logrus = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    logrus = sys.argv[1]
else:
    logrus = input("Enter the UID matching the key(s) to send: ")

if len(logrus) > 0:
    try:
        export_result = c.key_export(pattern=logrus)
    except Exception as e:
        print(e)
        export_result = None
    else:
        export_result = c.key_export(pattern=None)

if export_result is not None:
    try:
        try:
            send_result = server.add(export_result)
        except:
            send_result = server.add(export_result.decode())
        if send_result is not None:
            print(send_result)
        else:
            pass
    except Exception as e:
        print(e)
    else:
        pass

#END_SRC

An expanded version of this script with additional functions for 
specifying an alternative homedir location is in the examples 
directory as =send-key-to-keyserver.py=.
The `hkp4py` module appears to handle both string and byte literal text data equally well, but the GPGME bindings deal primarily with byte literal data only and so this script sends in that format first, then tries the string literal form.

* Basic Functions

The most frequently called features of any cryptographic library will be the most fundamental tasks for encryption software. In this section we will look at how to programmatically encrypt data, decrypt it, sign it and verify signatures.

** Encryption

Encrypting is very straightforward. In the first example below the message, `text=`, is encrypted to a single recipient's key. In the second example the message will be encrypted to multiple recipients.

*** Encrypting to one key

Once the context is set the main issues with encrypting data is essentially reduced to key selection and the keyword arguments specified in the `gpg.Context().encrypt()` method.

Those keyword arguments are: `recipients=`, a list of keys encrypted to (covered in greater detail in the following section); `sign=`, whether or not to sign the plaintext data, see subsequent sections on signing and verifying signatures below (defaults to `True=`, `sink=`, to write results or partial results to a secure sink instead of returning it (defaults to `None=`, `passphrase=`, only used when utilising symmetric encryption (defaults to `None=`, `always_trust=`, used to override the trust model settings for recipient keys (defaults to `False=`, `add_encrypt_to=`, utilises any preconfigured `encrypt-to= or `default_key= settings in the user's `gpg.conf` file (defaults to `False=`, `prepare=, prepare for encryption (defaults to `False=, `expect_sign=, prepare for signing (defaults to `False=, `compress=,
compresses the plaintext prior to encryption (defaults to =True=).

```python
# BEGIN_SRC python -i
import gpg

a_key = "0x12345678DEADBEEF"
text = b"""Some text to test with.

Since the text in this case must be bytes, it is most likely that
the input form will be a separate file which is opened with "rb"
as this is the simplest method of obtaining the correct data format.

```c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=False)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
# END_SRC

Though this is even more likely to be used like this; with the
plaintext input read from a file, the recipient keys used for
encryption regardless of key trust status and the encrypted output
also encrypted to any preconfigured keys set in the =gpg.conf= file:

```python
# BEGIN_SRC python -i
import gpg

a_key = "0x12345678DEADBEEF"

with open("secret_plans.txt", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
    always_trust=True,
    add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
# END_SRC

If the =recipients= parameter is empty then the plaintext is encrypted
symmetrically. If no =passphrase= is supplied as a parameter or via a
callback registered with the =Context()= then an out-of-band prompt
for the passphrase via pinentry will be invoked.
Encrypting to multiple keys essentially just expands upon the key selection process and the recipients from the previous examples.

The following example encrypts a message (=text=) to everyone with an email address on the =gnupg.org= domain,[fn:4] but does /not/ encrypt to a default key or other key which is configured to normally encrypt to.

#+BEGIN_SRC python -i
import gpg

text = b"""Oh look, another test message.

The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input() prompt.

Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```python

from gpg import gpg

text = b"""Oh look, another test message.

The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input() prompt.

Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.
```
be to change the `c.encrypt` line to this:

```python
#+BEGIN_SRC python -i
ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                          always_trust=True,
                                          add_encrypt_to=True)
#+END_SRC
```

The only keyword arguments requiring modification are those for which the default values are changing. The default value of `sign` is `True`, the default of `always_trust` is `False`, the default of `add_encrypt_to` is `False`.

If `always_trust` is not set to `True` and any of the recipient keys are not trusted (e.g. not signed or locally signed) then the encryption will raise an error. It is possible to mitigate this somewhat with something more like this:

```python
#+BEGIN_SRC python -i
import gpg

with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

try:
    ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                                add_encrypt_to=True)
except gpg.errors.InvalidRecipients as e:
    for i in range(len(e.recipients)):
        for n in range(len(logrus)):
            if logrus[n].fpr == e.recipients[i].fpr:
                logrus.remove(logrus[n])
            else:
                pass

try:
    ciphertext, result, sign_result = c.encrypt(text,
                                              recipients=logrus,
                                              add_encrypt_to=True)
with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
```
except:
    pass
#+END_SRC

This will attempt to encrypt to all the keys searched for, then remove invalid recipients if it fails and try again.

** Decryption

:PROPERTIES:
:CUSTOM_ID: howto-basic-decryption
:END:

Decrypting something encrypted to a key in one’s secret keyring is fairly straightforward.

In this example code, however, preconfiguring either `gpg.Context()` or `gpg.core.Context()` as `c` is unnecessary because there is no need to modify the Context prior to conducting the decryption and since the Context is only used once, setting it to `c` simply adds lines for no gain.

#+BEGIN_SRC python -i
import gpg
ciphertext = input("Enter path and filename of encrypted file: ")
newfile = input("Enter path and filename of file to save decrypted data to: ")

with open(ciphertext, "rb") as cfile:
    try:
        plaintext, result, verify_result = gpg.Context().decrypt(cfile)
    except gpg.errors.GPGMEError as e:
        plaintext = None
        print(e)

if plaintext is not None:
    with open(newfile, "wb") as nfile:
        nfile.write(plaintext)
else:
    pass
#+END_SRC

The data available in `plaintext` in this example is the decrypted content as a byte object, the recipient key IDs and algorithms in `result` and the results of verifying any signatures of the data in `verify_result`.

If `gpg.Context().decrypt(cfile, verify=False)` is called instead,
then =verify_result= will be returned as =None= and the rest remains as described here.

** Signing text and files

The following sections demonstrate how to specify keys to sign with.

*** Signing key selection

By default GPGME and the Python bindings will use the default key configured for the user invoking the GPGME API. If there is no default key specified and there is more than one secret key available it may be necessary to specify the key or keys with which to sign messages and files.

```
BEGIN_SRC python -i
import gpg

logrus = input("Enter the email address or string to match signing keys to: ")
hancock = gpg.Context().keylist(pattern=logrus, secret=True)
sig_src = list(hancock)
END_SRC
```

The signing examples in the following sections include the explicitly designated =signers= parameter in two of the five examples; once where the resulting signature would be ASCII armoured and once where it would not be armoured.

While it would be possible to enter a key ID or fingerprint here to match a specific key, it is not possible to enter two fingerprints and match two keys since the pattern expects a string, bytes or None and not a list. A string with two fingerprints won't match any single key.

*** Normal or default signing messages or files

```
The normal or default signing process is essentially the same as is
most often invoked when also encrypting a message or file. So when
the encryption component is not utilised, the result is to produce an
encoded and signed output which may or may not be ASCII armoured and
which may or may not also be compressed.

By default compression will be used unless GnuPG detects that the
plaintext is already compressed. ASCII armouring will be determined
according to the value of \texttt{gpg.Context().armor=}.

The compression algorithm is selected in much the same way as the
symmetric encryption algorithm or the hash digest algorithm is when
multiple keys are involved; from the preferences saved into the key
itself or by comparison with the preferences with all other keys
involved.

```python
import gpg

text0 = """Declaration of ... something.

..."

text = text0.encode()

c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
```

Though everything in this example is accurate, it is more likely that
reading the input data from another file and writing the result to a
new file will be performed more like the way it is done in the next
example. Even if the output format is ASCII armoured.

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
```

Detached signing messages and files

Detached signatures will often be needed in programmatic uses of GPGME, either for signing files (e.g. tarballs of code releases) or as a component of message signing (e.g. PGP/MIME encoded email).

```python
import gpg

text0 = """Declaration of ... something."

text = text0.encode()

c = gpg.Context(armor=True)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
```

As with normal signatures, detached signatures are best handled as byte literals, even when the output is ASCII armoured.

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
```

Clearsigning messages or text

```python
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
```
Though PGP/in-line messages are no longer encouraged in favour of PGP/MIME, there is still sometimes value in utilising in-line signatures. This is where clear-signed messages or text is of value.

```python
#+BEGIN_SRC python -i
import gpg
text0 = """Declaration of ... something.
"

text = text0.encode()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
#END_SRC
```

In spite of the appearance of a clear-signed message, the data handled by GPGME in signing it must still be byte literals.

```python
#+BEGIN_SRC python -i
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "wb") as afile:
    afile.write(signed_data)
#END_SRC
```

** Signature verification**

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.

The following example is intended for use with the default signing method where the file was not ASCII armoured:
Whereas this next example, which is almost identical would work with normal ASCII armoured files and with clear-signed files:

```python
#BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("\"""Good signature from:
{0}
with key {1}
made at {2}
\""\".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
        time.ctime(sign.timestamp)))
else:
    pass
#END_SRC
```
if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
{0}
with key {1}
made at {2}
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
            time.ctime(sign.timestamp)))
else:
    pass

In both of the previous examples it is also possible to compare the
original data that was signed against the signed data in =data= to see
if it matches with something like this:

```python
with open(filename, "rb") as afile:
    text = afile.read()

if text == data:
    print("Good signature.")
else:
    pass
```

The following two examples, however, deal with detached signatures.
With his method of verification the data that was signed does not get
returned since it is already being explicitly referenced in the first
argument of =c.verify=. So =data= is =None= and only the information
in =result= is available.

```python
import gpg
import time
filename = "statement.txt"
sig_file = "statement.txt.sig"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(sig_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
```
print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("
Good signature from:
{0} with key {1}
made at {2}

".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
            time.ctime(sign.timestamp)))
else:
    pass

#+END_SRC

#+BEGIN_SRC python -i
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)
    if verified is True:
        for i in range(len(result.signatures)):
            sign = result.signatures[i]
            print("
Good signature from:
{0} with key {1}
made at {2}

".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
            time.ctime(sign.timestamp)))
else:
    pass

#+END_SRC

* Creating keys and subkeys

:PROPERTIES:
:CUSTOM_ID: key-generation
The one thing, aside from GnuPG itself, that GPGME depends on, of course, is the keys themselves. So it is necessary to be able to generate them and modify them by adding subkeys, revoking or disabling them, sometimes deleting them and doing the same for user IDs.

In the following examples a key will be created for the world's greatest secret agent, Danger Mouse. Since Danger Mouse is a secret agent he needs to be able to protect information to =SECRET= level clearance, so his keys will be 3072-bit keys.

The pre-configured =gpg.conf= file which sets cipher, digest and other preferences contains the following configuration parameters:

```conf
#+BEGIN_SRC conf
expert
allow-freeform-uid
allow-secret-key-import
trust-model tofu+pgp
tofu-default-policy unknown
enable-large-rsa
enable-dsa2
cert-digest-algo SHA512
default-preference-list TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES BLOWFISH IDEA CAST5 3DES SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1 ZLIB BZIP2 ZIP Uncompressed
personal-cipher-preferences TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES BLOWFISH IDEA CAST5 3DES
personal-digest-preferences SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1
personal-compress-preferences ZLIB BZIP2 ZIP Uncompressed
#+END_SRC
```

** Primary key

Generating a primary key uses the =create_key= method in a Context. It contains multiple arguments and keyword arguments, including:

=userid=, =algorithm=, =expires_in=, =expires=, =sign=, =encrypt=, =certify=, =authenticate=, =passphrase= and =force=. The defaults for all of those except =userid=, =algorithm=, =expires_in=, =expires= and =passphrase= is =False=. The defaults for =algorithm= and =passphrase= is =None=. The default for =expires= is =0=. The default for =userid=,
If `passphrase` is left as `None` then the key will not be generated with a passphrase, if `passphrase` is set to a string then that will be the passphrase and if `passphrase` is set to `True` then gpg-agent will launch pinentry to prompt for a passphrase. For the sake of convenience, these examples will keep `passphrase` set to `None`.

```python
import gpg
c = gpg.Context()

c.home_dir = "~/.gnupg-dm"
userid = "Danger Mouse <dm@secret.example.net>"

dmkey = c.create_key(userid, algorithm="rsa3072", expires_in=31536000,
                        sign=True, certify=True)
```

One thing to note here is the use of setting the `home_dir` parameter. This enables generating the key or keys in a different location. In this case to keep the new key data created for this example in a separate location rather than adding it to existing and active key store data. As with the default directory, `~/.gnupg`, any temporary or separate directory needs the permissions set to only permit access by the directory owner. On posix systems this means setting the directory permissions to 700.

The `temp-homedir-config.py` script in the HOWTO examples directory will create an alternative homedir with these configuration options already set and the correct directory and file permissions.

The successful generation of the key can be confirmed via the returned `GenkeyResult` object, which includes the following data:

```python
print(""
Fingerprint:  {0}
Primary Key:  {1}
Public Key:  {2}
Secret Key:  {3}
Sub Key:  {4}
User IDs:  {5}
"".format(dmkey.fpr, dmkey.primary, dmkey.pubkey, dmkey.seckey, dmkey.sub,
          dmkey.uid))
```

Alternatively the information can be confirmed using the command line program:
As with generating keys manually, to preconfigure expanded preferences for the cipher, digest and compression algorithms, the =gpg.conf= file must contain those details in the home directory in which the new key is being generated. I used a cut down version of my own =gpg.conf= file in order to be able to generate this:

** Subkeys

Adding subkeys to a primary key is fairly similar to creating the primary key with the =create_subkey= method. Most of the arguments are the same, but not quite all. Instead of the =userid= argument there is now a =key= argument for selecting which primary key to add.
the subkey to.

In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

```python
# BEGIN_SRC python -i
import gpg
c = gpg.Context()
c.home_dir = "~/gnupg-dm"

key = c.get_key(dmkey.fpr, secret=True)
dmsub = c.create_subkey(key, algorithm="rsa3072", expires_in=15768000,
                        encrypt=True)
# END_SRC
```

As with the primary key, the results here can be checked with:

```python
# BEGIN_SRC python -i
print(""
    Fingerprint:  {0}
    Primary Key:  {1}
    Public Key:  {2}
    Secret Key:  {3}
    Sub Key:  {4}
    User IDs:  {5}
""
    .format(dmsub.fpr, dmsub.primary, dmsub.pubkey, dmsub.seckey, dmsub.sub,
             dmsub.uid))
# END_SRC
```

As well as on the command line with:

```shell
# BEGIN_SRC shell
bash-4.4$ gpg --homedir ~/.gnupg-dm -K

----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@secret.example.net>
ssb   rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
# END_SRC
```

** User IDs
*** Adding User IDs

By comparison to creating primary keys and subkeys, adding a new user ID to an existing key is much simpler. The method used to do this is `key_add_uid` and the only arguments it takes are for the `key` and the new `uid`.

```python
import gpg
c = gpg.Context()
c.home_dir = "~/gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@secret.example.net>"

c.key_add_uid(key, uid)
```

Unsurprisingly the result of this is:

```shell
bash-4.4$ gpg --homedir ~/gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid [ultimate] Danger Mouse <danger.mouse@secret.example.net>
uid [ultimate] Danger Mouse <dm@secret.example.net>
ssb rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
```

*** Revoking User IDs

```bash
bash-4.4$
```

---

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Revoking a user ID is a fairly similar process, except that it uses the `key_revoke_uid` method.

```python
# BEGIN_SRC python -i
import gpg

c = gpg.Context()
c.home_dir = "~/gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@secret.example.net>"

c.key_revoke_uid(key, uid)
# END_SRC
```

** Key certification

Since key certification is more frequently referred to as key signing, the method used to perform this function is `key_sign`.

The `key_sign` method takes four arguments: `key=`, `uids=`, `expires_in=` and `local=`. The default value of `uids=` is `None=` and which results in all user IDs being selected. The default value of both `expires_in=` and `local=` is `False=`; which results in the signature never expiring and being able to be exported.

The `key=` is the key being signed rather than the key doing the signing. To change the key doing the signing refer to the signing key selection above for signing messages and files.

If the `uids=` value is not `None=` then it must either be a string to match a single user ID or a list of strings to match multiple user IDs. In this case the matching of those strings must be precise and it is case sensitive.

To sign Danger Mouse's key for just the initial user ID with a signature which will last a little over a month, do this:

```python
# BEGIN_SRC python -i
import gpg

c = gpg.Context()
```
uid = "Danger Mouse <dm@secret.example.net>"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)

 *** Verifying key certifications
   :PROPERTIES:
   :CUSTOM_ID: key-sign-verify
   :END:

   #:BEGIN_SRC python -i
   import gpg
   import time
   
c = gpg.Context()
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

   for user in key.uids:
       for sig in user.signatures:
           print("0x{}",format(sig.keyid), ",", time.ctime(sig.timestamp), "",
                   sig.uid)
   #:END_SRC

Which for Danger Mouse displays the following:

   #:BEGIN_EXAMPLE
   0x92E3F6115435C65A  Thu Mar 15 13:17:44 2018  Danger Mouse <dm@secret.example.net>
   0x321E4E2373590E5D  Mon Nov 26 12:46:05 2018  Ben McGinnes <ben@adversary.org>
   #:END_EXAMPLE

The two key signatures listed are for the self-certification of Danger Mouse's key made when the key was created in March, 2018; and the second is a signature made by the author and set to expire at the end of the year. Note that the second signature was made with the following code (including the preceding code to display the output of the certifications or key signatures):

   #:BEGIN_SRC python -i
   import gpg
   import math
   import pendulum
   import time
   
   which for Danger Mouse displays the following:
```python
hd = "~/home/dm/.gnupg"
c = gpg.Context()
d = gpg.Context(home_dir=hd)
dmuid = "Danger Mouse <dm@secret.example.net>"
dkeys = list(c.keylist(pattern=dmuid))
dmkey = dkeys[0]

c.key_import(d.key_export(pattern=None))

tp = pendulum.period(pendulum.now(tz="local"), pendulum.datetime(2019, 1, 1))
ts = tp.total_seconds()
total_secs = math.ceil(ts)
c.key_sign(dmkey, uids=dmuid, expires_in=total_secs)

d.key_import(c.key_export(pattern=dmuid))
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

for user in key.uids:
    for sig in user.signatures:
        print("0x{0}".format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
```

Note that this final code block includes the use of a module which is NOT part of Python's standard library, the [[https://pendulum.eustace.io/][pendulum module]]. Unlike the standard datetime module, pendulum makes working with dates and times significantly easier in Python; just as the requests module makes working with HTTP and HTTPS easier than the builtin modules do.

Though neither requests nor pendulum are required modules for using the GPGME Python bindings, they are both highly recommended more generally.

* Advanced or Experimental Use Cases

** C plus Python plus SWIG plus Cython

In spite of the apparent incongruence of using Python bindings to a C
interface only to generate more C from the Python; it is in fact quite possible to use the GPGME bindings with [[http://docs.cython.org/en/latest/index.html][Cython]]. Though in many cases the benefits may not be obvious since the most computationally intensive work never leaves the level of the C code with which GPGME itself is interacting with.

Nevertheless, there are some situations where the benefits are demonstrable. One of the better and easier examples being the one of the early examples in this HOWTO, the [[#howto-keys-counting][key counting]] code. Running that example as an executable Python script, =keycount.py= (available in the =examples/howto/= directory), will take a noticeable amount of time to run on most systems where the public keybox or keyring contains a few thousand public keys.

Earlier in the evening, prior to starting this section, I ran that script on my laptop; as I tend to do periodically and timed it using =time= utility, with the following results:

#+BEGIN_SRC shell
bash-4.4$ time keycount.py

  Number of secret keys:  23
  Number of public keys:  12112

real  11m52.945s
user  0m0.913s
sys   0m0.752s
bash-4.4$
#+END_SRC

Sometime after that I imported another key and followed it with a little test of Cython. This test was kept fairly basic, essentially lifting the material from the [[http://docs.cython.org/en/latest/src/tutorial/cython_tutorial.html][Cython Basic Tutorial]] to demonstrate compiling Python code to C. The first step was to take the example key counting code quoted previously, essentially from the importing of the =gpg= module to the end of the script:

#+BEGIN_SRC python -i
import gpg

c = gpg.Context()

seckeys = c.keylist(pattern=None, secret=True)

pubkeys = c.keylist(pattern=None, secret=False)

#+
seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("**
   Number of secret keys:  {0}
   Number of public keys:  {1}
***.format(secnum, pubnum))

Save that into a file called =keycount.pyx= and then create a
=setup.py= file which contains this:

#+BEGIN_SRC python -i
from distutils.core import setup
from Cython.Build import cythonize

setup(
    ext_modules = cythonize("keycount.pyx")
)

#+END_SRC

Compile it:

#+BEGIN_SRC shell
bash-4.4$ python setup.py build_ext --inplace
bash-4.4$

Then run it in a similar manner to =keycount.py=:

#+BEGIN_SRC shell
bash-4.4$ time python3.7 -c "import keycount"

Number of secret keys:  23
Number of public keys:  12113

real  6m47.905s
user  0m0.785s
sys   0m0.331s
bash-4.4$

#+END_SRC
Cython turned `keycount.pyx` into an 81KB `keycount.o` file in the `build/` directory, a 24KB `keycount.cpython-37m-darwin.so` file to be imported into Python 3.7 and a 113KB `keycount.c` generated C source code file of nearly three thousand lines. Quite a bit bigger than the 314 bytes of the `keycount.pyx` file or the full 1,452 bytes of the full executable `keycount.py` example script.

On the other hand it ran in nearly half the time; taking 6 minutes and 47.905 seconds to run. As opposed to the 11 minutes and 52.945 seconds which the CPython script alone took.

The `keycount.pyx` and `setup.py` files used to generate this example have been added to the `examples/howto/advanced/cython/` directory.
The example versions include some additional options to annotate the existing code and to detect Cython's use. The latter comes from the [[http://docs.cython.org/en/latest/src/tutorial/pure.html#magic-attributes-within-the-pxd][Magic Attributes]] section of the Cython documentation.

* Miscellaneous extras and work-arounds

Most of the things in the following sections are here simply because there was no better place to put them, even though some are only peripherally related to the GPGME Python bindings. Some are also workarounds for functions not integrated with GPGME as yet. This is especially true of the first of these, dealing with `[]#group-lines[]`.

** Group lines

There is not yet an easy way to access groups configured in the `gpg.conf` file from within GPGME. As a consequence these central groupings of keys cannot be shared amongst multiple programs, such as MUAs readily.

The following code, however, provides a work-around for obtaining this information in Python.

```python
#BEGIN_SRC python -i
import subprocess
import sys
```
if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-options gpg"
else:
    gpgconfcmd = "gpgconf --list-options gpg"

process = subprocess.Popen(gpgconfcmd.split(), stdout=subprocess.PIPE)
procom = process.communicate()

if sys.version_info[0] == 2:
    lines = procom[0].splitlines()
else:
    lines = procom[0].decode().splitlines()

for line in lines:
    if line.startswith("group") is True:
        break

    groups = line.split(":")[1].replace("", ").split(",[

    group_lines = []
    group_lists = []

    for group in groups:
        group_lines.append(group.split("="))
        group_lists.append(group.split("="))

    for glist in group_lists:
        glist[1] = glist[1].split()

# END_SRC

The result of that code is that =group_lines= is a list of lists where
=group_lines[i][0]= is the name of the group and =group_lines[i][1]=
is the key IDs of the group as a string.

The =group_lists= result is very similar in that it is a list of
lists. The first part, =group_lists[i][0]= matches
=group_lines[i][0]= as the name of the group, but =group_lists[i][1]=
is the key IDs of the group as a list.

A demonstration of using the =groups.py= module is also available in
the form of the executable =mutt-groups.py= script. This second
script reads all the group entries in a user's =gpg.conf= file and
converts them into crypt-hooks suitable for use with the Mutt and
Neomutt mail clients.

** Keyserver access for Python

:PROPERTIES:
The [https://github.com/Selfnet/hkp4py][hkp4py] module by Marcel Fest was originally a port of the old [https://github.com/dgladkov/python-hkp][python-hkp] module from Python 2 to Python 3 and updated to use the [http://docs.python-requests.org/en/latest/index.html][requests] module instead. It has since been modified to provide support for Python 2.7 as well and is available via PyPI.

Since it rewrites the =hkp= protocol prefix as =http= and =hkps= as =https=, the module is able to be used even with servers which do not support the full scope of keyserver functions.[fn:5] It also works quite readily when incorporated into a [[#cython][Cython]] generated and compiled version of any code.

*** Key import format

The hkp4py module returns key data via requests as string literals (=r.text=) instead of byte literals (=r.content=). This means that the returned key data must be encoded to UTF-8 when importing that key material using a =gpg.Context().key_import= method.

For this reason an alternative method has been added to the =search= function of =hkp4py.KeyServer()= which returns the key in the correct format as expected by =key_import=. When importing using this module, it is now possible to import with this:

```python
for key in keys:
    if key.revoked is False:
        gpg.Context().key_import(key.key_blob)
    else:
        pass
```

Without that recent addition it would have been necessary to encode the contents of each =hkp4py.KeyServer().search()[i].key= in =hkp4py.KeyServer().search()= before trying to import it.

An example of this is included in the [[#howto-import-key][Importing Keys]] section of this HOWTO and the corresponding executable version of that example is available in the =lang/python/examples/howto= directory as normal; the executable version is the =import-keys-hkp.py= file.
** GPGME version checking

For various reasons it may be necessary to check which version of GPGME the bindings have been built against; including whether a minimum required version of GPGME is in use.

For the most part the $gpg.version.versionstr$ and $gpg.version.versionlist$ methods have been quite sufficient. The former returns the same string as $gpgme-config --version=$, while the latter returns the major, minor and patch values in a list.

To check if the installed bindings have actually been built against the current installed libgpgme version, this check can be performed:

```python
import gpg
import subprocess
import sys

gpgme_version_call = subprocess.Popen(['gpgme-config', '--version'],
                                         stdout=subprocess.PIPE,
                                         stderr=subprocess.PIPE)

gpgme_version_str = gpgme_version_call.communicate()

if sys.version_info[0] == 2:
    gpgme_version = gpgme_version_str[0].strip()
elif sys.version_info[0] >= 3:
    gpgme_version = gpgme_version_str[0].decode().strip()
else:
    gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
```

For many developers, however, the preferred checking means checking for a minimum version or point release. This is now readily available via the $gpg.version.versionintlist$ method (added in version $1.12.1-beta79=$). It is also now possible to easily check whether the
installed GPGME Python bindings were built from a development or beta branch of the GPGME source code.

The following code demonstrates how both of those methods may be used:

```python
#BEGIN_SRC python -i
import gpg

try:
    if gpg.version.is_beta is True:
        print("The installed GPGME Python bindings were built from beta code."")
    else:
        print("The installed GPGME Python bindings are a released version.")
except Exception as e:
    print(e)

try:
    if gpg.version.versionintlist[0] == 1:
        if gpg.version.versionintlist[1] == 12:
            if gpg.version.versionintlist[2] == 1:
                print("This is the minimum version for using versionintlist.")
            elif gpg.version.versionintlist[2] > 1:
                print("The versionintlist method is available.")
            else:
                pass
        elif gpg.version.versionintlist[1] > 12:
            print("The versionintlist method is available.")
        else:
            pass
    elif gpg.version.versionintlist[0] > 1:
        print("The versionintlist method is available.")
    else:
        pass
except Exception as e:
    print(e)
#END_SRC

The points where =pass= is used in the above example will most likely also produce an =Exception= error since those results should only occur in versions which do not have the =gpgme.version.is_beta= and =gpgme.version.versionintlist= methods available.
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Draft editions of this HOWTO may be periodically available directly from the author at any of the following URLs:

- [[https://files.au.adversary.org/crypto/gpgme-python-howto.html][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)]]
- [[http://files.au.adversary.org/crypto/gpgme-python-howto.html][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)]]
- [[https://files.au.adversary.org/crypto/gpgme-python-howto-split/index.html][GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 SSL)]]
- [[http://files.au.adversary.org/crypto/gpgme-python-howto/index.html][GPGME Python Bindings HOWTO draft (HTML multiple files, AWS S3 no SSL)]]

These draft versions have been generated from this document via GNU Emacs [[https://orgmode.org/][Org mode]] to `.texi` and [[https://www.gnu.org/software/texinfo/][GNU Texinfo]] to HTML. Though it is likely that the specific [[https://files.au.adversary.org/crypto/gpgme-python-howto][file]] [[http://files.au.adversary.org/crypto/gpgme-python-howto.org][version]] used will be on the same server with the generated output formats. Occasionally I may include the Org mode generated XHTML versions:

- [[https://files.au.adversary.org/crypto/gpgme-python-howto.xhtml][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)]]
- [[http://files.au.adversary.org/crypto/gpgme-python-howto.xhtml][GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)]]

That XHTML version, however, is exported in a way which inherits a colour scheme from [[https://github.com/holomorph/emacs-zenburn][the author's Emacs theme]] (which is a higher contrast version of [[http://kippura.org/zenburnpage/][Zenburn]] ported by [[https://github.com/holomorph][Holomorph]]). So it's fine for people who prefer dark themed web pages, but not so great for everyone else.

The GNU Texinfo and reStructured Text versions ship with the software, while the GNU Emacs Info version is generated from the Texinfo.
version using GNU Texinfo or GNU Makeinfo. The Texinfo format is
generated from the original Org mode source file in Org mode itself
either within GNU Emacs or via the command line by invoking Emacs in
batch mode:

#+BEGIN_SRC shell
  emacs gpgme-python-howto.org --batch -f org-texinfo-export-to-texinfo --kill
  emacs gpgme-python-howto --batch -f org-texinfo-export-to-texinfo --kill
#+END_SRC

The reStructuredText format is also generated from the Org mode source
file, except it is generated using [[https://pandoc.org][Pandoc]] with either of the following
commands (depending on the filename):

#+BEGIN_SRC shell
  pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto.org
  pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto
#+END_SRC

Note that the Org mode source files are identified as such via a mode
line at the top of each file and have had their =.org= file extensions
dropped in order to make scripted generation of output formats easier
and not require renaming files post-conversion.

Due to a bug in Org mode's texinfo conversion method, the recommended
steps for generating the Texinfo files for all the files in the
=lang/python/doc/src/= directory are as follows:

#+BEGIN_SRC shell
  for x in * ; do
    emacs $x --batch -f org-texinfo-export-to-texinfo --kill
    cat $x.texi | sed -e 's/@documentencoding UTF-8/@documentencoding utf-8/g' > ../texinfo/$x.texi
    pandoc -f org -t rst+smart -o ../rst/$x.rst $x
  done ;
  rm -fv *.texi
cd ../texinfo
  mkdir info
  mkdir html
  for x in *.texi ; do
    makeinfo -v $x
    makeinfo --html --no-split $x
  done ;
  mv *.info info/
  mv *.html html/
#+END_SRC

This code snippet includes the generation of the reStructuredText
files and would be expected to be run from the =doc/src/= directory
containing the Org mode source files. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs[fn:6] available. The code snippet also includes the steps for generating the Emacs Info files and HTML files from the Texinfo files. Using reStructuredText files with Sphinx is best left for the documentation of that project.

In addition to these there is a significantly less frequently updated version as a HTML [[https://files.au.adversary.org/crypto/gpgme-python/dita/webhelp/index.html][WebHelp site]] (AWS S3 SSL); generated from DITA XML source files, which can be found in [[https://dev.gnupg.org/source/gpgme/browse/ben%252Fhowto-dita][an alternative branch]] of the GPGME git repository.

Various generated output formats may occasionally be found in subdirectories of the [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python][gpgme-python]] directory. In particular within the [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/dita][DITA]], [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/rst][reStructuredText]] and [[https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/texinfo][Texinfo]] subdirectories. The =rst= directory contains output files generated with Sphinx and may include a considerable number of its possible output formats, but there are no guarantees as to how recent these are or even if they are present.

These draft editions are not official documents and the version of documentation in the master branch or which ships with released versions is the only official documentation. Nevertheless, these draft editions may occasionally be of use by providing more accessible web versions which are updated between releases. They are provided on the understanding that they may contain errors or may contain content subject to change prior to an official release.

** License GPL compatible

:PROPERTIES:
:CUSTOM_ID: license
:END:

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* Footnotes

[fn:1] =short-history= and/or =short-history.html=.

[fn:2] With no issues reported specific to Python 3.7, the release of Python 3.7.1 at around the same time as GPGME 1.12.0 and the testing with Python 3.7.1rc1, there is no reason to delay moving 3.7 ahead of 3.6 now. Production environments with more conservative requirements will always enforce their own policies anyway and installation to each supported minor release is quite possible too.

[fn:3] Yes, even if you use virtualenv with everything you do in Python. If you want to install this module as just your user account then you will need to manually configure, compile and install the entire GnuPG stack as that user as well. This includes libraries which are not often installed that way. It can be done and there are circumstances under which it is worthwhile, but generally only on POSIX systems which utilise single user mode (some even require it).

[fn:4] You probably don't really want to do this. Searching the keyservers for "gnupg.org" produces over 400 results, the majority of which aren't actually at the gnupg.org domain, but just included a comment regarding the project in their key somewhere.

[fn:5] Such as with ProtonMail servers. This also means that restricted servers which only advertise either HTTP or HTTPS end points and not HKP or HKPS end points must still be identified as as HKP or HKPS within the Python Code. The =hkp4py= module will rewrite these appropriately when the connection is made to the server.

[fn:6] Okay, Emacs might not necessarily qualify as a basic tool, but it is common enough that having it installed on a system isn't too great an expectation, nor is it difficult to add to most POSIX systems, even if the users of those systems do not personally use it.

;;-*. Mode: lisp -*.  

;;; Copyright (C) 2006 g10 Code GmbH

;;; This file is part of GPGME.

;;; GPGME is free software; you can redistribute it and/or
;;; modify it under the terms of the GNU Lesser General Public License
;;; as published by the Free Software Foundation; either version 2.1 of
;;; the License, or (at your option) any later version.

;;; GPGME is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
(defpackage #:gpgme-system
  (:use #:common-lisp #:asdf))

(in-package #:gpgme-system)

defsystem gpgme
  :description "GnuPG Made Easy."
  :author "g10 Code GmbH"
  :version "1.13.1"
  :licence "GPL"
  :defsystem-depends-on ("cffi-grovel")
  :depends-on ("cffi", "gpg-error", "trivial-garbage")
  :components ((:file "gpgme-package")
    (:cffi-grovel-file "gpgme-grovel"
     :depends-on ("gpgme-package"))
    (:file "gpgme"
     :depends-on ("gpgme-package", "gpgme-grovel")))

cython
(21:protected-private-key(3:dsa(1:p129::d8|po3s@!WGUOAXRC$[8SN:y]o?2|,pVxn(kOe\Bk0zu&FnK)(1:q21: vBeOPP)(1:g129:fU/e(2hp@hjc2uE=Sg GO;ZklyFnGM!GsG@
    =_SZklI)(1:y128:K:9tA]\4SU1 )sG`nZpx/imV^>A;\V%?5!!sS[!-=-6@]
  =d
)(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:Li7:6452224)16:,kO{},80:z7OCG/sB48(H9%*ojSO
  OGSma`YUs1h<_)(12:protected-at15:20130812T105134))))

#+TITLE: GPGME Python Bindings HOWTO Examples
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_COMPILER: xelatex

* Examples

The contents of this directory are the examples included in the /GNU
Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO/ file. Each script is explicitly for Python 3 and specifically for Python 3.4 or later.

Some of these scripts may work with Python 2.7, but there are no guarantees. They will include the relevant imports from the __future__ module to facilitate that if possible.

* Copyright and Licensing

** Copyright (C) The GnuPG Project, 2018

Copyright The GnuPG Project, 2018.

** License GPL compatible

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This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

\input texinfo @c -*-texinfo-*-
@c %**start of header
@setfilename index.info
@settitle GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@documentencoding utf-8
@documentlanguage en
GNU Privacy Guard (GnuPG) Made Easy Python Bindings

@node Contents
@section Contents

@itemize
@item
@uref{short-history, A short history of the project}
@item
@uref{what-is-new, What's New}
@itemize
@item
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)
@end itemize
@end itemize
@uref{what-was-new, What Was New}
@item
@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}
@end itemize

@bye

;;;; gpgme-package.lisp

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;;;;
;;;; This file is part of GPGME-CL.
;;;;
;;;; GPGME-CL is free software; you can redistribute it and/or modify
;;;; it under the terms of the GNU General Public License as published
;;;; by the Free Software Foundation; either version 2 of the License,
;;;; or (at your option) any later version.
;;;;
;;;; GPGME-CL is distributed in the hope that it will be useful, but
;;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;;; Lesser General Public License for more details.
;;;;
;;;; You should have received a copy of the GNU General Public License
;;;; along with GPGME; if not, write to the Free Software Foundation,
;;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;;; Conventions:
;;;;
;;;; gpg-error is used for error handling.
;;;;
;;;; Standard I/O streams are used for input and output.

(defun package #:gpgme
  (:use #:common-lisp #:cffi #:gpg-error)
  (:import-from #:trivial-garbage #:finalize)
  (:export #:check-version #:*version* #:context #:protocol #:armorp #:textmodep
    #:+include-certs-default+ #:include-certs #:keylist-mode #:signers
    #:sig-notations #:with-context)
NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann <marcus@g10code.com>

* gpgme.texi (I/O Callback Example): Fix example code.

* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference GPG and GPGSM manual.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

* uiserver.texi (UI Server Encrypt): Add --expect-sign option to PREP_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

* gpgme.texi (Exporting Keys): Document gpgme_op_export_keys.
  (Data Buffer Meta-Data): Document URL encodings.

2009-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Document selftest error.
  (Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>
* gpgme.texi (Encrypting a Plaintext): Document GPGME_ENCRYPT_NO_ENCRYPT_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Replace path by file_name.

2008-11-28 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Change description of the return value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Add option --protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>

* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancellation): Document gpgme_cancel_async.

2008-06-25 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Updated example to the current API. Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Describe START_CONFDIALOG.

2008-06-04 Werner Koch <wk@g10code.com>

* gpgme.texi: Use @copying command. Change license to GPLv3. Include protocol specs from GpgOL and GPGEx. Minor cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (File Based Data Buffers): Document the need for
blocking operations.
(Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Rename snippet function to init_gpgme.
(I/O Callback Example): Call it here.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Document that data encoding affects some output data objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocols and Engines): Document GPGME_PROTOCOL_UNKNOWN.

2007-09-11 Werner Koch <wk@g10code.com>

* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Describe chain_model.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgme.texi (Library Version Check): Add remark that the socket layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Fix documentation of gpgme_strerror_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Data Buffer I/O Operations): Fixed entry for gpgme_data_seek: OFFSET is not a pointer; some s/whence/offset/.
2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Clarify that
gpgme_data_release_and_get_mem destroys DH unconditionally.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Make example code compatible
to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix inverted condition in
description.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Document pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* gpgme.texi (Key Management): Updated to match the fixes for
subkey fingerprints and the secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Document gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add the new member notations of
gpgme_sig_key_t.
(Key Listing Mode): Document GPGME_KEYLIST_MODE_SIG_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Enclose all return parameters of deftypefuns in
curly brackets.

* gpgme.texi (Signature Notation Data): New section.
(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data):
New subsections.
* gpgme.texi: Replace plaintext_filename with file_name.

* gpgme.texi (Key Management): Document is_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Decrypt): Add plaintext_filename to gpgme_decrypt_result_t.
  (Verify): Likewise for gpgme_verify_result_t.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Add information about new fields in gpgme_signature_t.

* gpgme.texi (Decrypt): Add gpgme_recipient_t.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Fix return type of gpgme_set_keylist_mode.
  Reported by "Sergio" <ml_sergico@virgilio.it>.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Included Certificates): Document GPGME_INCLUDE_CERTS_DEFAULT.

2005-01-12 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Configuration): New section.
  (Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* lesser.texi (Library Copying): Change from @appendixsec to @appendix.
  * gpgme.texi (Features): Change reference to GPL to one to LGPL.

* Makefile.am: Change license to LGPL.
  (gpgme_TEXINFOS): Replace gpl.texi with lesser.texi.

* gpgme.texi: Change license to LGPL (also for documentation of GPGME's license).
  * gpl.texi: File removed.

* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported
by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme_TEXINFOS): Remove fdl.texi.
* gpgme.texi: Do not include fdl.texi. Change license to GPL.
* fdl.texi: File removed.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Change type of keylist_mode in gpgme_key_t to gpgme_keylist_mode_t.

2004-09-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document GPG_ERR_NOT_IMPLEMENTED.
* gpgme.texi: Update copyright year for tex version.

2004-07-29 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Verify): Fix gpgme_get_key example (ancient force_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Elaborate on the length restrictions on search patterns.
* gpgme.texi (Decrypt and Verify): Document the NO_DATA error code.
(Verify): Document the relationship between gpgme_op_verify_result and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.text (Verify): Document GPG_ERR_CERT_REVOKED status.
* gpgme.texi (Decrypt): Add note about new field wrong_key_usage of gpgme_decrypt_result_t.
* gpgme.texi (Key Management): Add note about new field keylist_mode of gpgme_key_t.
2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Correct type of member wrong_key_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

* gpgme.texi (Verify): Fix type of gpgme_op_verify_result.
* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Fix the instruction when to set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (cancellation): New section.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.texi (Key Listing Mode): Doc KEYLIST_MODE_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

* gpgme.texi: A couple of small fixes regarding the Largefile Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Largefile Support): New section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Rename member class in gpgme_key_sig_t to sig_class.
(Creating a Signature): Likewise for gpgme_signature_t.

2003-12-23 Moritz Schulte <mo@g10code.com>
* gpgme.texi (Listing Keys): Minor clarification for gpgme_get_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Correct documentation on memory synchronization requirement.

* gpgme.texi (Locale): New section.

(Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add gpgme_strerror_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Update documentation.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): We don’t use the assuan namespace anymore.

Document new thread options.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Change type of member class to unsigned int.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Get error code from SIG->status in the code for gpgme_get_sig_status.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add can_authenticate flag.

* gpgme.texi (Listing Keys): Document GPG_ERR_AMBIGUOUS_NAME for gpgme_get_key.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (EXTRA_DIST): Remove variable.
* **gpgme.texi** (Encrypting a Plaintext): Bad passphrase is only possible with symmetric encryption, change the wording to reflect that.

* **gpgme.texi** (Creating a Signature): Document GPG_ERR_UNUSABLE_SECKEY.

* **gpgme.texi** (Encrypting a Plaintext): Mention encrypt and sign operations in result function.
  (Creating a Signature): Likewise.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

* **gpgme.texi** (Key Listing Mode): Remove word duplication.
  (Listing Keys): Remove mentioning of force argument.
  (Verify): Don't mention r_stat. Fix some typos.
  (Decrypt and Verify): Correct info how to get the result. Don't mention r_stat.
  (Manipulating Data Buffers): Fix documentation of return value.
  (Listing Keys): Update examples.
  (Decrypt): Result might also be available when operation failed.
  (Verify): Result might also be available when operation failed.
  All spotted by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* **gpgme.texi** (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

* **gpgme.texi** (Key Management): Clarify difference between can_sign and can_certify.
  (Information About Keys): Likewise for GPGME_ATTR_CAN_SIGN and GPGME_ATTR_CAN_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* **gpgme.texi** (Progress Meter Callback): Change return type of gpgme_progress_cb_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* **gpgme.texi**: Add 2003 to copyright notice.

* **gpgme.texi** (Header): Fix name space documentation on libgpg-error.
2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove reference to
gpgme_recipients_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Crypto Operations): Rename gpgme_invalid_user_id_t
to gpgme_invalid_key_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Change error codes to GPG_ERR_* variants.
  (Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change and document prototypes.
  Add new gpgme_op_export_ext and gpgme_op_export_ext_start
  variants.
  (Selecting Recipients): Section removed.
  (Encrypting a Plaintext): Change prototypes and document the
  changes.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change argument type from
gpgme_recipient_t to gpgme_user_id_t.
  (Encrypting a Plaintext): Likewise.
  (Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocol Selection): Do not use @acronym in @node
  because that breaks texi2dvi.

* gpgme.texi (Passphrase Callback): Document new prototype.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add
  _GPGME to namespace prefix.
  * gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document what happens if key is not
  found.
* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Remove reference to gpgme_get_op_info.
   (Detailed Results): Subsection removed.

* gpgme.texi (Key Listing Mode): Add GPGME_KEYLIST_MODE_SIGS.
  (Manipulating Keys): Add obsoleteness note.
  (Key Signatures): Likewise.
  (Information About Keys): Likewise.
  (Key Management): Add new data types GpgmeSubkey, GpgmeKeySig, GpgmeUserID, and all the information about GpgmeKey.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Remove force_update argument from gpgme_get_key.

* gpgme.texi (Trust Item Management): Add data members of GpgmeTrustItem type.
  (Information About Trust Items): Add note about obsoleteness.
  (Manipulating Trust Items): Add gpgme_trust_item_ref and gpgme_trust_item_unref.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Rewritten to take into account new and deprecated functions and data types.

* gpgme.texi (Decrypt): Describe gpgme_op_decrypt_result and GpgmeDecryptResult.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Add info about GpgmeEncryptResult and gpgme_op_encrypt_result.

* gpgme.texi (Creating a Signature): Add info about GpgmeNewSignature, GpgmeSignResult and gpgme_op_sign_result.
  (Crypto Operations): Add GpgmeInvalidUserID.

* gpgme.texi (Deleting Keys): Document GPGME_Ambiguous_Specification.
  (Error Values): Remove GPGME_Invalid_Type and GPGME_Invalid_Mode.
Add GPGME_Unknown_Reason, GPGME_Not_Found,
GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
GPGME_Bad_Signature, GPGME_No_Public_Key.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Change GPGME_IMPORT_PRIVATE to
GPGME_IMPORT_SECRET.

* gpgme.texi (Importing Keys): Remove note about gpgme_get_op_info.
(Detailed Results): Remove note about import.

* gpgme.texi (Importing Keys): Add documentation for
GpgmeImportStatus, GpgmeImportResult and gpgme_op_import_result.

* gpgme.texi (Generating Keys): Fix documentation of public and
secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document changed gpgme_op_genkey
and new gpgme_op_genkey_result function. Document
GpgmeGenKeyResult data type.

* gpgme.texi (Error Values): Rename GPGME_No_Passphrase to
GPGME_Bad_Passphrase.
* gpgme.texi (Decrypt): Likewise.
(Decrypt and Verify): Likewise.
(Creating a Signature): Likewise.
(Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Rename GPGME_No_Recipients to
GPGME_No_UserID and GPGME_Invalid_Recipient to
GPGME_Invalid_UserID.
(Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Remove GPGME_Busy and GPGME_No_Request.
(Listing Keys): Likewise.
(Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancelling an Operation): Removed.
2003-01-30  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Engine Information): Rename member part to file_name.

* gpgme.texi (Protocols and Engines): Document gpgme_get_protocol_name.

* gpgme.texi (Engine Information): Rewritten.

2003-01-29  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (I/O Callback Interface): Document new even GPGME_EVENT_START.
(Waiting For Completion): Document new possible return values.

2003-01-29  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Hooking Up Into Idle Time): Section removed.

2002-12-24  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Verify): Drop R_STAT argument in gpgme_op_verify.
* gpgme.texi (Decrypt and Verify): Likewise for gpgme_op_decrypt_verify.

2002-12-23  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document that GPGME_ATTR_IS_SECRET is not representable as a string anymore.

2002-12-22  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Key Signatures): New section.
(Listing Keys): Add gpgme_get_key.

2002-12-06  Marcus Brinkmann  <marcus@g10code.de>

* gpgme.texi (Memory Based Data Buffers): New subsection.
(File Based Data Buffers): Likewise.
(Callback Based Data Buffers): Likewise.
(Manipulating Data Buffers): Update interfaces. Add gpgme_data_seek.
* gpgme.texi (Engine Version Check): Remove gpgme_check_engine.

2002-11-21  Marcus Brinkmann  <marcus@g10code.de>
* gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document new argument to gpgme_op_genkey.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Fix prototype of gpgme_get_sig_key. Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Selecting Signers): Fix reference count.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Document name space.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Document gpgme_op_import_ext.

* gpgme.texi (Importing Keys): Undocument EOF.

2002-08-14 Werner Koch <wk@gnupg.org>

* gpgme.texi (Information About Keys): Changed GPGME_ATTR_TYPE.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Say that secret keys might not be deleted.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document (badly) the new key attributes.

* gpgme.texi (Manipulating Data Buffers): Mention that backend tries to detect encoding automatically.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): Update this section. (Waiting For Completion): Likewise for this subsection.
(Cancelling an Operation): Likewise for this subsection.
(Using External Event Loops): New subsection with several subsubsections.

2002-06-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove item about the need to synchronize anything against gpgme_wait (except gpgme_wait itself).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Fix documentation for IDX. (Information About Trust Items): Likewise.

2002-06-26 Werner Koch <wk@gnupg.org>

* gpgme.texi (Importing Keys): Document the return value -1 of gpgme_op_import.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgme.texi (Verify): Explain the new whatidx variable.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgme.texi (Verify): Document attribute GPGME_ATTR_ERRTOK.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Some typographical corrections throughout.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Escape { and }.
2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Overview): Replace note about thread-safeness.
(Multi Threading): New section.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): Changed some data types to void*.
(Protocol Selection): Added gpgme_get_protocol.
(Verify): Updated to include the new attribute functions and status codes.

2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document that either return argument can be NULL.
(Progress Meter Callback): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

(Progress Meter Callback): Document the new function gpgme_get_progress_cb.

2002-04-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Fix function name. Reported by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (direntry): End index entry with a full stop. Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch <wk@gnupg.org>

* gpgme.texi (Detailed Results): Import does also return info.
2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document symmetric encryption.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add example.
* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document GPGME_ATTR_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document verification of normal and cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document gpgme_op_keylist_ext_start.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document GPGME_Invalid_Recipients.
  (Error Values): Likewise.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document gpgme_op_encrypt_sign and gpgme_op_encrypt_sign_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Add a note about certificates to include.
  (Included Certificates): New section.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Remove literal tags.
  (Generating Keys): Update documentation.

* gpgme.texi (Generating Keys): Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>
* gpgme.texi (Waiting For Completion): Adjust doc to changes in the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Update documentation.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document error at creation failure.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Add reference to gpgme_get_op_info.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Some spell checking.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add all the gpgme_op_*_start functions. Fill the concept index with many, many entries.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>


2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's R_HD type from void* to void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating data buffers): Change gpgme_data_new_from_filepart's LENGTH type from off_t to size_t.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>
* gpgme.texi (Generating keys): New subsection.
(Exporting keys): Likewise.
(Importing keys): Likewise.
(Deleting keys): Likewise.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: g10Code -> g10 Code

* gpgme.texi (Top): Complete detailmenu.

* gpgme.texi: Convert embarrassing cruft to the real thing.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Likewise.
* gpl.texi: Likewise.
* fdl.texi: Likewise.
* Makefile.am (info_TEXINFOS): New variable.
     (gpgme_TEXINFOS): Likewise.

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WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
\input texinfo @c -*- mode: texinfo; coding: utf-8; -*.-
@documentencoding UTF-8
@setfilename gpgme.info
@include defs.inc
@settitle The `GnuPG Made Easy' Reference Manual

@dircategory GNU Libraries
@direntry
* @acronym{GPGME}: (gpgme). Adding support for cryptography to your program.
@end direntry

@c Unify some of the indices.
@syncodeindex tp fn
@syncodeindex pg fn

@copying
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@c Macros used by the description of the UI server protocol
@macro clnt{string}
@sc{c:} \string\}
@end macro
@macro srvr{string}
@sc{s:} \string\}
@end macro

@c API version.
@macro since{string}
@sc{Since:} \string\}
@end macro

@{c
@{c T I T L E P A G E
@{c
@ifinfo
This file documents the @acronym{GPGME} library.

This is Edition @value{EDITION}, last updated @value{UPDATED}, of @cite{The `GnuPG Made Easy' Reference Manual}, for Version @value{VERSION}.

@c NOTE: Don't forget to update the year for the TeX version, too.
@end ifinfo

@end iftex

@c We do not want that bastard short titlepage.
@c @iftex
@c @shorttitlepage The `GnuPG Made Easy' Reference Manual
This is Edition @value{EDITION}, last updated @value{UPDATED}, of @cite{The `GnuPG Made Easy' Reference Manual}, for Version @value{VERSION} of the @acronym{GPGME} library.
can copy and share this manual.

Indices

* Concept Index:: Index of concepts and programs.
* Function and Data Index:: Index of functions, variables and data types.

Introduction

* Getting Started:: Purpose of the manual, and how to use it.
* Features:: Reasons to install and use @acronym{GPGME}.
* Overview:: Basic architecture of the @acronym{GPGME} library.

Preparation

* Header:: What header file you need to include.
* Building the Source:: Compiler options to be used.
* Largefile Support (LFS):: How to use @acronym{GPGME} with LFS.
* Using Automake:: Compiler options to be used the easy way.
* Using Libtool:: Avoiding compiler options entirely.
* Library Version Check:: Getting and verifying the library version.
* Signal Handling:: How @acronym{GPGME} affects signal handling.
* Multi-Threading:: How @acronym{GPGME} can be used in an MT environment.

Protocols and Engines

* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.

Algorithms

* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.

Error Handling

* Error Values:: The error value and what it means.
* Error Codes:: A list of important error codes.
* Error Sources:: A list of important error sources.
* Error Strings:: How to get a descriptive string from a value.

Exchanging Data
* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.

Creating Data Buffers

* Memory Based Data Buffers:: Creating memory based data buffers.
* File Based Data Buffers:: Creating file based data buffers.
* Callback Based Data Buffers:: Creating callback based data buffers.

Manipulating Data Buffers

* Data Buffer I/O Operations:: I/O operations on data buffers.
* Data Buffer Meta-Data:: Meta-data manipulation of data buffers.
* Data Buffer Convenience:: Convenience function for data buffers.

Contexts

* Creating Contexts:: Creating new @acronym{GPGME} contexts.
* Destroying Contexts:: Releasing @acronym{GPGME} contexts.
* Result Management:: Managing the result of crypto operations.
* Context Attributes:: Setting properties of a context.
* Key Management:: Managing keys with @acronym{GPGME}.
* Trust Item Management:: Managing trust items with @acronym{GPGME}.
* Crypto Operations:: Using a context for cryptography.
* Miscellaneous:: Miscellaneous operations.
* Run Control:: Controlling how operations are run.

Context Attributes

* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting @acronym{ASCII} armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Included Certificates:: Including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Locale:: Setting the locale of a context.

Key Management

* Key objects:: Description of the key structures.
* Listing Keys:: Browsing the list of available keys.
* Information About Keys:: Requesting detailed information about keys.
* Manipulating Keys:: Operations on keys.
* Generating Keys:: Creating new key pairs.
* Signing Keys:: Adding key signatures to public keys.
* Exporting Keys:: Retrieving key data from the key ring.
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.

Trust Item Management

* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.

Crypto Operations

* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.

Sign

* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.

Encrypt

* Encrypting a Plaintext:: How to encrypt a plaintext.

Miscellaneous

* Running other Programs:: Running other Programs.
* Using the Assuan protocol:: Using the Assuan protocol.
* Checking for updates:: How to check for software updates.

Run Control

* Waiting For Completion:: Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.

Using External Event Loops
`GnuPG Made Easy' (@acronym{GPGME}) is a C language library that allows to add support for cryptography to a program. It is designed to make access to public key crypto engines like GnuPG or GpgSM easier for applications. @acronym{GPGME} provides a high-level crypto API for encryption, decryption, signing, signature verification and key management.

@acronym{GPGME} uses GnuPG and GpgSM as its backends to support OpenPGP and the Cryptographic Message Syntax (CMS).
library. Experienced programmers might want to start looking at the examples at the end of the manual, and then only read up those parts of the interface which are unclear.

The documentation for the language bindings is currently not included in this manual. Those languages bindings follow the general programming model of @acronym{GPGME} but may provide some extra high level abstraction on top of the @acronym{GPGME} style API. For now please see the README files in the @file{lang/} directory of the source distribution.

@node Features
@section Features

@acronym{GPGME} has a couple of advantages over other libraries doing a similar job, and over implementing support for GnuPG or other crypto engines into your application directly.

@table @asis
@item it's free software
Anybody can use, modify, and redistribute it under the terms of the GNU Lesser General Public License (@pxref{Library Copying}).

@item it's flexible
@acronym{GPGME} provides transparent support for several cryptographic protocols by different engines. Currently, @acronym{GPGME} supports the OpenPGP protocol using GnuPG as the backend, and the Cryptographic Message Syntax using GpgSM as the backend.

@item it's easy
@acronym{GPGME} hides the differences between the protocols and engines from the programmer behind an easy-to-use interface. This way the programmer can focus on the other parts of the program, and still integrate strong cryptography in his application. Once support for @acronym{GPGME} has been added to a program, it is easy to add support for other crypto protocols once @acronym{GPGME} backends provide them.

@item it's language friendly
@acronym{GPGME} comes with languages bindings for several common programming languages: Common Lisp, C++, Python 2, and Python 3.
@end table

@node Overview
@section Overview

@acronym{GPGME} provides a data abstraction that is used to pass data to the crypto engine, and receive returned data from it. Data can be
read from memory or from files, but it can also be provided by a callback function.

The actual cryptographic operations are always set within a context. A context provides configuration parameters that define the behaviour of all operations performed within it. Only one operation per context is allowed at any time, but when one operation is finished, you can run the next operation in the same context. There can be more than one context, and all can run different operations at the same time.

Furthermore, @acronym{GPGME} has rich key management facilities including listing keys, querying their attributes, generating, importing, exporting and deleting keys, and acquiring information about the trust path.

With some precautions, @acronym{GPGME} can be used in a multi-threaded environment, although it is not completely thread safe and thus needs the support of the application.

To use @acronym{GPGME}, you have to perform some changes to your sources and the build system. The necessary changes are small and explained in the following sections. At the end of this chapter, it is described how the library is initialized, and how the requirements of the library are verified.

All interfaces (data types and functions) of the library are defined in the header file `gpgme.h'. You must include this in all programs.
using the library, either directly or through some other header file, like this:

@example
#include <gpgme.h>
@end example

The name space of @acronym{GPGME} is @code{gpgme_*} for function names and data types and @code{GPGME_*} for other symbols. Symbols internal to @acronym{GPGME} take the form @code{__gpgme_*} and @code{GPGME_*}.

Because @acronym{GPGME} makes use of the GPG Error library, using @acronym{GPGME} will also use the @code{GPG_ERR_*} name space directly, and the @code{gpg_err*}, @code{gpg_str*}, and @code{gpgrt_*} name space indirectly.

@node Building the Source
@section Building the Source
@cindex compiler options
@cindex compiler flags
If you want to compile a source file including the `gpgme.h' header file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is located to the compilers include file search path (via the @option{-I} option).

However, the path to the include file is determined at the time the source is configured. To solve this problem, gpgme ships with a small helper program @command{gpgme-config} that knows about the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the @option{--cflags} option to @command{gpgme-config}. The following example shows how it can be used at the command line:

@example
gcc -c foo.c `gpgme-config --cflags`
@end example

Adding the output of @samp{gpgme-config --cflags} to the compiler command line will ensure that the compiler can find the @acronym{GPGME} header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the @option{-L} option). For this, the option
@option{--libs} to @command{gpgme-config} can be used. For convenience, this option also outputs all other options that are required to link the program with @acronym{GPGME} (in particular, the @samp{-lgpgme} option). The example shows how to link @file{foo.o} with the @acronym{GPGME} library to a program @command{foo}.

@example
gcc -o foo foo.o `gpgme-config --libs`
@end example

Of course you can also combine both examples to a single command by specifying both options to @command{gpgme-config}:

@example
gcc -o foo foo.c `gpgme-config --cflags --libs`
@end example

If you need to detect the installed language bindings you can use list them using:

@example
gpgme-config --print-lang
@end example

or test for the availability using

@example
gpgme-config --have-lang=python && echo 'Bindings for Pythons available'
@end example

@node Largefile Support (LFS)
@section Largefile Support (LFS)
@cindex largefile support
@cindex LFS
@acronym{GPGME} is compiled with largefile support by default, if it is available on the system. This means that GPGME supports files larger than two gigabyte in size, if the underlying operating system can. On some systems, largefile support is already the default. On such systems, nothing special is required. However, some systems provide only support for files up to two gigabyte in size by default. Support for larger file sizes has to be specifically enabled.

To make a difficult situation even more complex, such systems provide two different types of largefile support. You can either get all relevant functions replaced with alternatives that are largefile capable, or you can get new functions and data types for largefile
support added. Those new functions have the same name as their smallfile counterparts, but with a suffix of 64.

An example: The data type `off_t` is 32 bit wide on GNU/Linux PC systems. To address offsets in large files, you can either enable largefile support add-on. Then a new data type `off64_t` is provided, which is 64 bit wide. Or you can replace the existing `off_t` data type with its 64 bit wide counterpart. All occurrences of `off_t` are then automagically replaced.

As if matters were not complex enough, there are also two different types of file descriptors in such systems. This is important because if file descriptors are exchanged between programs that use a different maximum file size, certain errors must be produced on some file descriptors to prevent subtle overflow bugs from occurring.

As you can see, supporting two different maximum file sizes at the same time is not at all an easy task. However, the maximum file size does matter for GPGME, because some data types it uses in its interfaces are affected by that. For example, the `off_t` data type is used in the `gpgme_data_seek` function, to match its `POSIX` counterpart. This affects the call-frame of the function, and thus the ABI of the library. Furthermore, file descriptors can be exchanged between GPGME and the application.

For you as the user of the library, this means that your program must be compiled in the same file size mode as the library. Luckily, there is absolutely no valid reason for new programs to not enable largefile support by default and just use that. The compatibility modes (small file sizes or dual mode) can be considered an historic artefact, only useful to allow for a transitional period.

On POSIX platforms GPGME is compiled using largefile support by default. This means that your application must do the same, at least as far as it is relevant for using the `gpgme.h` header file. All types in this header files refer to their largefile counterparts, if they are different from any default types on the system.

On 32 and 64 bit Windows platforms `off_t` is declared as 32 bit signed integer. There is no specific support for LFS in the C library. The recommendation from Microsoft is to use the native interface (CreateFile) et al.) for large files. Released binary versions of GPGME (libgpgme-11.dll) have always been build with a 32 bit `off_t`. To avoid an ABI break we stick to this convention for 32 bit Windows by using `long` there. GPGME versions for 64 bit Windows have never been released and thus we are able to use `int64_t` instead of `off_t`. 
there. For easier migration the typedef \texttt{gpgme\_off\_t} has been defined. The reason we cannot use \texttt{off\_t} directly is that some toolchains (e.g. mingw64) introduce a POSIX compatible hack for \texttt{off\_t}. Some widely used toolkits make use of this hack and in turn \acronym{GPGME} would need to use it also. However, this would introduce an ABI break and existing software making use of libgpgme might suffer from a severe break. Thus with version 1.4.2 we redefined all functions using \texttt{off\_t} to use \texttt{gpgme\_off\_t} which is defined as explained above. This way we keep the ABI well defined and independent of any toolchain hacks. The bottom line is that LFS support in \acronym{GPGME} is only available on 64 bit versions of Windows.

On POSIX platforms you can enable largefile support, if it is different from the default on the system the application is compiled on, by using the Autoconf macro \texttt{AC\_SYS\_LARGEFILE}. If you do this, then you don't need to worry about anything else: It will just work. In this case you might also want to use \texttt{AC\_FUNC\_FSEEKO} to take advantage of some new interfaces, and \texttt{AC\_TYPE\_OFF\_T} (just in case).

If you do not use Autoconf, you can define the preprocessor symbol \texttt{_FILE\_OFFSET\_BITS} to 64 \emph{before} including any header files, for example by specifying the option \texttt{-D\_FILE\_OFFSET\_BITS=64} on the compiler command line. You will also want to define the preprocessor symbol \texttt{LARGEFILE\_SOURCE} to 1 in this case, to take advantage of some new interfaces.

If you do not want to do either of the above, you probably know enough about the issue to invent your own solution. Just keep in mind that the \acronym{GPGME} header file expects that largefile support is enabled, if it is available. In particular, we do not support dual mode (\texttt{LARGEFILE64\_SOURCE}).

\node Using Automake
\section Using Automake
@cindex automake
@cindex autoconf

It is much easier if you use GNU Automake instead of writing your own Makefiles. If you do that you do not have to worry about finding and invoking the \texttt{gpgme-config} script at all. \acronym{GPGME} provides an extension to Automake that does all the work for you.

@c A simple macro for optional variables.
@macro ovar{varname}
@r{[]\{varname\}@r{}}
@defmac AM_PATH_GPGME (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})
@defmacx AM_PATH_GPGME_PTH (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})
@defmacx AM_PATH_GPGME_PTHREAD (@ovar{minimum-version}, @ovar{action-if-found}, @ovar{action-if-not-found})

Check whether @acronym{GPGME} (at least version @var{minimum-version}, if given) exists on the host system. If it is found, execute @var{action-if-found}, otherwise do @var{action-if-not-found}, if given.

Additionally, the function defines @code{GPGME_CFLAGS} to the flags needed for compilation of the program to find the @file{gpgme.h} header file, and @code{GPGME_LIBS} to the linker flags needed to link the program to the @acronym{GPGME} library. If the used helper script does not match the target type you are building for a warning is printed and the string @code{libgcrypt} is appended to the variable @code{gpg_config_script_warn}.

@code{AM_PATH_GPGME_PTH} checks for the version of @acronym{GPGME} that can be used with GNU Pth, and defines @code{GPGME_PTH_CFLAGS} and @code{GPGME_PTH_LIBS}.

@code{AM_PATH_GPGME_PTHREAD} checks for the version of @acronym{GPGME} that can be used with the native pthread implementation, and defines @code{GPGME_PTHREAD_CFLAGS} and @code{GPGME_PTHREAD_LIBS}. Since version 1.8.0 this is no longer required to GPGME_PTHREAD as @acronym{GPGME} itself is thread safe.

This macro searches for @command{gpgme-config} along the PATH. If you are cross-compiling, it is useful to set the environment variable @code{SYSROOT} to the top directory of your target. The macro will then first look for the helper program in the @file{bin} directory below that top directory. An absolute directory name must be used for @code{SYSROOT}. Finally, if the configure command line option @code{--with-gpgme-prefix} is used, only its value is used for the top directory below which the helper script is expected.

@end defmac

You can use the defined Autoconf variables like this in your @file{Makefile.am}:

@example
AM_CPPFLAGS = $(GPGME_CFLAGS)
LDADD = $(GPGME_LIBS)
@end example
The easiest way is to just use GNU Libtool. If you use libtool, and link to `libgpgme.la`, `libgpgme-pth.la` or `libgpgme-pthread.la` respectively, everything will be done automatically by Libtool.

The function `gpgme_check_version` has four purposes. It can be used to retrieve the version number of the library. In addition it can verify that the version number is higher than a certain required version number. In either case, the function initializes some sub-systems, and for this reason alone it must be invoked early in your program, before you make use of the other functions in @acronym{GPGME}. The last purpose is to run selftests.

As a side effect for W32 based systems, the socket layer will get initialized.

If `required_version` is `NULL`, the function returns a pointer to a statically allocated string containing the version number of the library.

If `required_version` is not `NULL`, it should point to a string containing a version number, and the function checks that the version of the library is at least as high as the version number provided. In this case, the function returns a pointer to a statically allocated string containing the version number of the library. If `REQUIRED_VERSION` is not a valid version number, or if the version requirement is not met, the function returns `NULL`.

If you use a version of a library that is backwards compatible with older releases, but contains additional interfaces which your program uses, this function provides a run-time check if the necessary features are provided by the installed version of the library.

If a selftest fails, the function may still succeed. Selftest errors are returned later when invoking `gpgme_new` or
@code{gpgme-data_new}, so that a detailed error code can be returned (historically, @code{gpgme_check_version} does not return a detailed error code).
@end deftypefun

@deftypefun {int} gpgme_set_global_flag  @
   (@w{const char *@var{name}}, @
   @w{const char *@var{value}})

@since{1.4.0}

On some systems it is not easy to set environment variables and thus hard to use @acronym{GPGME}'s internal trace facility for debugging. This function has been introduced as an alternative way to enable debugging and for a couple of other rarely used tweaks. It is important to assure that only one thread accesses @acronym{GPGME} functions between a call to this function and after the return from the call to @code{gpgme_check_version}.

All currently supported features require that this function is called as early as possible --- even before @code{gpgme_check_version}. The features are identified by the following values for @var{name}:

@table @code
@item debug
To enable debugging use the string ``debug'' for @var{name} and @var{value} identical to the value used with the environment variable @code{GPGME_DEBUG}.

@item disable-gpgconf
Using this feature with any @var{value} disables the detection of the gpgconf program and thus forces GPGME to fallback into the simple OpenPGP only mode. It may be used to force the use of GnuPG-1 on systems which have both GPG versions installed. Note that in general the use of @code{gpgme_set_engine_info} is a better way to select a specific engine version.

@item gpgconf-name
@itemx gpg-name
Set the name of the gpgconf respective gpg binary. The defaults are @code{GNU/GnuPG/gpgconf} and @code{GNU/GnuPG/gpg}. Under Unix the leading directory part is ignored. Under Windows the leading directory part is used as the default installation directory; the @code{.exe} suffix is added by GPGME. Use forward slashed even under Windows.

@item require-gnupg
Set the minimum version of the required GnuPG engine. If that version is not met, GPGME fails early instead of trying to use the existent version. The given version must be a string with major, minor, and micro number. Example: "2.1.0".

@item w32-inst-dir
On Windows GPGME needs to know its installation directory to find its spawn helper. This is in general no problem because a DLL has this information. Some applications however link statically to GPGME and thus GPGME can only figure out the installation directory of this application which may be wrong in certain cases. By supplying an installation directory as value to this flag, GPGME will assume that that directory is the installation directory. This flag has no effect on non-Windows platforms.

@end table

This function returns @code{0} on success. In contrast to other functions the non-zero return value on failure does not convey any error code. For setting ``debug'' the only possible error cause is an out of memory condition; which would exhibit itself later anyway. Thus the return value may be ignored.
@end deftypefun

After initializing @acronym{GPGME}, you should set the locale information to the locale required for your output terminal. This locale information is needed for example for the curses and Gtk pinentry. Here is an example of a complete initialization:

@example
#include <locale.h>
#include <gpgme.h>

void
init_gpgme (void)
{
/* Initialize the locale environment. */
setlocale (LC_ALL, "");
gpgme_check_version (NULL);
gpgme_set_locale (NULL, LC_CTYPE, setlocale (LC_CTYPE, NULL));
#ifdef LC_MESSAGES
    gpgme_set_locale (NULL, LC_MESSAGES, setlocale (LC_MESSAGES, NULL));
#endif
}@}
@end example

Note that you are highly recommended to initialize the locale settings
like this. @acronym{GPGME} can not do this for you because it would not be thread safe. The conditional on LC_MESSAGES is only necessary for portability to W32 systems.

@section Signal Handling
@cindex signals
@cindex signal handling

The @acronym{GPGME} library communicates with child processes (the crypto engines). If a child process dies unexpectedly, for example due to a bug, or system problem, a @code{SIGPIPE} signal will be delivered to the application. The default action is to abort the program. To protect against this, @code{gpgme_check_version} sets the @code{SIGPIPE} signal action to @code{SIG_IGN}, which means that the signal will be ignored.

@acronym{GPGME} will only do that if the signal action for @code{SIGPIPE} is @code{SIG_DEF} at the time @code{gpgme_check_version} is called. If it is something different, @code{GPGME} will take no action.

This means that if your application does not install any signal handler for @code{SIGPIPE}, you don't need to take any precautions. If you do install a signal handler for @code{SIGPIPE}, you must be prepared to handle any @code{SIGPIPE} events that occur due to @acronym{GPGME} writing to a defunct pipe. Furthermore, if your application is multi-threaded, and you install a signal action for @code{SIGPIPE}, you must make sure you do this either before @code{gpgme_check_version} is called or afterwards.

@section Multi-Threading
@cindex thread-safeness
@cindex multi-threading

The @acronym{GPGME} library is mostly thread-safe, and can be used in a multi-threaded environment but there are some requirements for multi-threaded use:

@itemize @bullet
@item The function @code{gpgme_check_version} must be called before any other function in the library, because it initializes the thread support subsystem in @acronym{GPGME}. To achieve this in multi-threaded programs, you must synchronize the memory with respect
to other threads that also want to use @acronym{GPGME}. For this, it is sufficient to call @code{gpgme_check_version} before creating the other threads using @acronym{GPGME} @footnote{At least this is true for POSIX threads, as @code{pthread_create} is a function that synchronizes memory with respects to other threads. There are many functions which have this property, a complete list can be found in POSIX, IEEE Std 1003.1-2003, Base Definitions, Issue 6, in the definition of the term ``Memory Synchronization''. For other thread packages other, more relaxed or more strict rules may apply.}.

@item
Any @code{gpgme_data_t} and @code{gpgme_ctx_t} object must only be accessed by one thread at a time. If multiple threads want to deal with the same object, the caller has to make sure that operations on that object are fully synchronized.

@item
Only one thread at any time is allowed to call @code{gpgme_wait}. If multiple threads call this function, the caller must make sure that all invocations are fully synchronized. It is safe to start asynchronous operations while a thread is running in gpgme_wait.

@item
The function @code{gpgme_strerror} is not thread safe. You have to use @code{gpgme_strerror_r} instead.
@end itemize

@node Protocols and Engines
@chapter Protocols and Engines
@cindex protocol
@cindex engine
@cindex crypto engine
@cindex backend
@cindex crypto backend

@acronym{GPGME} supports several cryptographic protocols, however, it does not implement them. Rather it uses backends (also called engines) which implement the protocol. @acronym{GPGME} uses inter-process communication to pass data back and forth between the application and the backend, but the details of the communication protocol and invocation of the backend is completely hidden by the interface. All complexity is handled by @acronym{GPGME}. Where an exchange of information between the application and the backend is necessary, @acronym{GPGME} provides the necessary callback function hooks and further interfaces.

@deftp {Data type} {enum gpgme_protocol_t}
The `gpgme_protocol_t` type specifies the set of possible protocol values that are supported by `GPGME`. The following protocols are supported:

<table>
<thead>
<tr>
<th>Protocol Name</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPGME_PROTOCOL_OpenPGP</td>
<td>This specifies the OpenPGP protocol.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_CMS</td>
<td>This specifies the Cryptographic Message Syntax.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_GPGCONF</td>
<td>Under development. Please ask on <code>gnupg-devel@gnupg.org</code> for help.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_ASSUAN</td>
<td>This specifies the raw Assuan protocol.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_G13</td>
<td>Under development. Please ask on <code>gnupg-devel@gnupg.org</code> for help.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_UISERVER</td>
<td>Under development. Please ask on <code>gnupg-devel@gnupg.org</code> for help.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_SPAWN</td>
<td>Special protocol for use with <code>gpgme_op_spawn</code>.</td>
<td></td>
</tr>
<tr>
<td>GPGME_PROTOCOL_UNKNOWN</td>
<td>Reserved for future extension. You may use this to indicate that the used protocol is not known to the application. Currently, <code>GPGME</code> does not accept this value in any operation, though, except for <code>gpgme_get_protocol_name</code>.</td>
<td></td>
</tr>
</tbody>
</table>

The function `gpgme_get_protocol_name` returns a statically allocated string describing the protocol `protocol`, or `NULL` if the protocol number is not valid.
@menu
* Engine Version Check:: Verifying the engine version.
* Engine Information:: Obtaining more information about the engines.
* Engine Configuration:: Changing the engine configuration.
* OpenPGP:: Support for the OpenPGP protocol.
* Cryptographic Message Syntax:: Support for the CMS.
* Assuan:: Support for the raw Assuan protocol.
@end menu

@section Engine Version Check
@deftypefun {const char *} gpgme_get_dirinfo (@{const char *}@var{what})
@since{1.5.0}

The function @code{gpgme_get_dirinfo} returns a statically allocated string with the value associated to @var{what}. The returned values are the defaults and won't change even after @code{gpgme_set_engine_info} has been used to configure a different engine. @code{NULL} is returned if no value is available. Commonly supported values for @var{what} are:

@table @code
@item homedir
Return the default home directory.

@item sysconfdir
Return the name of the system configuration directory

@item bindir
Return the name of the directory with GnuPG program files.

@item libdir
Return the name of the directory with GnuPG related library files.

@item libexecdir
Return the name of the directory with GnuPG helper program files.

@item datadir
Return the name of the directory with GnuPG shared data.

@item localedir
Return the name of the directory with GnuPG locale data.

@item agent-socket
Return the name of the socket to connect to the gpg-agent.

@item agent-ssh-socket
Return the name of the socket to connect to the ssh-agent component of gpg-agent.

@item dirmngr-socket
Return the name of the socket to connect to the dirmngr.

@item uiserver-socket
Return the name of the socket to connect to the user interface server.

@item gpgconf-name
Return the file name of the engine configuration tool.

@item gpg-name
Return the file name of the OpenPGP engine.

@item gpgsm-name
Return the file name of the CMS engine.

@item g13-name
Return the name of the file container encryption engine.

@item gpg-wks-client-name
Return the name of the Web Key Service tool.

@end table
@end deftypefun

@end deftypefun gpgme_error_t gpgme_engine_check_version (@w{gpgme_protocol_t @var{protocol}})
The function @code{gpgme_engine_check_version} verifies that the engine implementing the protocol @var{PROTOCOL} is installed in the expected path and meets the version requirement of @acronym{GPGME}.

This function returns the error code @code{GPG_ERR_NO_ERROR} if the engine is available and @code{GPG_ERR_INV_ENGINE} if it is not.
@end deftypefun

@node Engine Information
@section Engine Information
@cindex engine, information about

@deftp {Data type} {gpgme_engine_info_t}
@tindex gpgme_protocol_t
The @code{gpgme_engine_info_t} type specifies a pointer to a structure describing a crypto engine. The structure contains the following elements:

@table @code
@item gpgme_engine_info_t next
This is a pointer to the next engine info structure in the linked list, or @code{NULL} if this is the last element.

@item gpgme_protocol_t protocol
This is the protocol for which the crypto engine is used. You can convert this to a string with @code{gpgme_get_protocol_name} for printing.

@item const char *file_name
This is a string holding the file name of the executable of the crypto engine. Currently, it is never @code{NULL}, but using @code{NULL} is reserved for future use, so always check before you use it.

@item const char *home_dir
This is a string holding the directory name of the crypto engine's configuration directory. If it is @code{NULL}, then the default directory is used. See @code{gpgme_get_dirinfo} on how to get the default directory.

@item const char *version
This is a string containing the version number of the crypto engine. It might be @code{NULL} if the version number cannot be determined, for example because the executable doesn't exist or is invalid.

@item const char *req_version
This is a string containing the minimum required version number of the crypto engine for @acronym{GPGME} to work correctly. This is the version number that @code{gpgme_engine_check_version} verifies against. Currently, it is never @code{NULL}, but using @code{NULL} is reserved for future use, so always check before you use it.
@end table
@end deftp

@deftypefun gpgme_error_t gpgme_get_engine_info (@w{gpgme_engine_info_t *@var{info}})
The function @code{gpgme_get_engine_info} returns a linked list of engine info structures in @var{info}. Each info structure describes the defaults of one configured backend.

The memory for the info structures is allocated the first time this function is invoked, and must not be freed by the caller.

This function returns the error code @code{GPG_ERR_NO_ERROR} if
successful, and a system error if the memory could not be allocated.
@end deftypefun

Here is an example how you can provide more diagnostics if you receive an error message which indicates that the crypto engine is invalid.

@example
gpgme_ctx_t ctx;
gpgme_error_t err;

[...]

if (gpgme_err_code (err) == GPG_ERR_INV_ENGINE)
@

gpgme_engine_info_t info;
err = gpgme_get_engine_info (&info);
if (!err)
@

while (info && info->protocol != gpgme_get_protocol (ctx))

info = info->next;
if (!info)

fprintf (stderr, "GPGME compiled without support for protocol %s",

  gpgme_get_protocol_name (info->protocol));
else if (info->file_name && !info->version)

fprintf (stderr, "Engine %s not installed properly",

  info->file_name);
else if (info->file_name && info->version && info->req_version)

fprintf (stderr, "Engine %s version %s installed, "

"but at least version %s required", info->file_name,

  info->version, info->req_version);
else

fprintf (stderr, "Unknown problem with engine for protocol %s",

  gpgme_get_protocol_name (info->protocol));
@
}@
@end example

@node Engine Configuration
@section Engine Configuration
@cindex engine, configuration of
@cindex configuration of crypto backend

You can change the configuration of a backend engine, and thus change the executable program and configuration directory to be used. You can make these changes the default or set them for some contexts individually.
The function `gpgme_set_engine_info` changes the default configuration of the crypto engine implementing the protocol `proto`.

`file_name` is the file name of the executable program implementing this protocol, and `home_dir` is the directory name of the configuration directory for this crypto engine. If `home_dir` is `NULL`, the engine's default will be used.

The new defaults are not applied to already created GPGME contexts.

This function returns the error code `GPG_ERR_NO_ERROR` if successful, or an error code on failure.

The functions `gpgme_ctx_get_engine_info` and `gpgme_ctx_set_engine_info` can be used to change the engine configuration per context. See Crypto Engine.

OpenPGP is implemented by GnuPG, the GNU Privacy Guard. This is the first protocol that was supported by GPGME.

The OpenPGP protocol is specified by `GPGME_PROTOCOL_OpenPGP`.

`CMS` is implemented by GpgSM, the S/MIME implementation for...
GnuPG.

The @acronym{CMS} protocol is specified by @code{GPGME_PROTOCOL_CMS}.

@node Assuan
@section Assuan
@cindex ASSUAN
@cindex protocol, ASSUAN
@cindex engine, ASSUAN

Assuan is the RPC library used by the various @acronym{GnuPG} components. The Assuan protocol allows one to talk to arbitrary Assuan servers using @acronym{GPGME}. @xref{Using the Assuan protocol}.

The ASSUAN protocol is specified by @code{GPGME_PROTOCOL_ASSUAN}.

@node Algorithms
@section Algorithms
@cindex algorithms

The crypto backends support a variety of algorithms used in public key cryptography. Some engines also provide symmetric only encryption; see the description of the encryption function on how to use this. The following sections list the identifiers used to denote such an algorithm.

@menu
* Public Key Algorithms:: A list of all public key algorithms.
* Hash Algorithms:: A list of all hash algorithms.
@end menu

@node Public Key Algorithms
@section Public Key Algorithms
@cindex algorithms, public key
@cindex public key algorithms

Public key algorithms are used for encryption, decryption, signing and verification of signatures.

@deftp {Data type} {enum gpgme_pubkey_algo_t}
@tindex gpgme_pubkey_algo_t
The @code{gpgme_pubkey_algo_t} type specifies the set of all public key algorithms that are supported by @acronym{GPGME}. Possible values are:
@table @code
@item GPGME_PK_RSA
This value indicates the RSA (Rivest, Shamir, Adleman) algorithm.

@item GPGME_PK_RSA_E
Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for encryption and decryption only.

@item GPGME_PK_RSA_S
Deprecated. This value indicates the RSA (Rivest, Shamir, Adleman) algorithm for signing and verification only.

@item GPGME_PK_DSA
This value indicates DSA, the Digital Signature Algorithm.

@item GPGME_PK_ELG
This value indicates ElGamal.

@item GPGME_PK_ELG_E
This value also indicates ElGamal and is used specifically in GnuPG.

@item GPGME_PK_ECC
@since{1.5.0}
This value is a generic indicator for elliptic curve algorithms.

@item GPGME_PK_ECDSA
@since{1.3.0}
This value indicates ECDSA, the Elliptic Curve Digital Signature Algorithm as defined by FIPS 186-2 and RFC-6637.

@item GPGME_PK_ECDH
@since{1.3.0}
This value indicates ECDH, the Elliptic Curve Diffie-Hellmann encryption algorithm as defined by RFC-6637.

@item GPGME_PK_EDDSA
@since{1.7.0}
This value indicates the EdDSA algorithm.
@end table
@end deftp
The function `@code{gpgme_pubkey_alog_name}` returns a pointer to a statically allocated string containing a description of the public key algorithm `@var{algo}`. This string can be used to output the name of the public key algorithm to the user.

If `@var{algo}` is not a valid public key algorithm, `@code{NULL}` is returned.
@end deftypefun

@deftypefun {char *} gpgme_pubkey_algo_string (@w{gpgme_subkey_t @var{key}})
@since{1.7.0}

The function `@code{gpgme_pubkey_algo_string}` is a convenience function to build and return an algorithm string in the same way GnuPG does (e.g. ``rsa2048'' or ``ed25519''). The caller must free the result using `@code{gpgme_free}`. On error (e.g. invalid argument or memory exhausted), the function returns NULL and sets `@code{ERRNO}`.
@end deftypefun

@node Hash Algorithms
@section Hash Algorithms
@cindex algorithms, hash
@cindex algorithms, message digest
@cindex hash algorithms
@cindex message digest algorithms

Hash (message digest) algorithms are used to compress a long message to make it suitable for public key cryptography.

@deftp {Data type} {enum gpgme_hash_algo_t}
@tindex gpgme_hash_algo_t

The `@code{gpgme_hash_algo_t}` type specifies the set of all hash algorithms that are supported by `@acronym{GPGME}`. Possible values are:

@table @code
@item GPGME_MD_MD5
@item GPGME_MD_SHA1
@item GPGME_MD_RMD160
@item GPGME_MD_MD2
@item GPGME_MD_TIGER
@item GPGME_MD_HAVAL
@item GPGME_MD_SHA256
@item GPGME_MD_SHA384
@item GPGME_MD_SHA512
@item GPGME_MD_SHA224
@since{1.5.0}
The function `gpgme_hash_algo_name` returns a pointer to a statically allocated string containing a description of the hash algorithm `algo`. This string can be used to output the name of the hash algorithm to the user.

If `algo` is not a valid hash algorithm, `NULL` is returned.

---

Error Handling

Many functions in GPGME can return an error if they fail. For this reason, the application should always catch the error condition and take appropriate measures, for example by releasing the resources and passing the error up to the caller, or by displaying a descriptive message to the user and cancelling the operation.

Some error values do not indicate a system error or an error in the operation, but the result of an operation that failed properly. For example, if you try to decrypt a tempered message, the decryption will fail. Another error value actually means that the end of a data buffer or list has been reached. The following descriptions explain for many error codes what they mean usually. Some error values have specific meanings if returned by a certain functions. Such cases are described in the documentation of those functions.

GPGME uses the `libgpg-error` library. This allows to share the error codes with other components of the GnuPG system, and thus pass error values transparently from the crypto engine, or some helper application of the crypto engine, to the user. This way no information is lost. As a consequence, GPGME does not use its own identifiers for error codes, but uses those provided by `libgpg-error`. They usually start with `GPG_ERR_`.

However, GPGME does provide aliases for the functions defined in libgpg-error, which might be preferred for name space consistency.
The `gpgme_err_code_t` type is an alias for the `libgpg-error` type `gpg_err_code_t`. The error code indicates the type of an error, or the reason why an operation failed.

A list of important error codes can be found in the next section.

The `gpgme_err_source_t` type is an alias for the `libgpg-error` type `gpg_err_source_t`. The error source has not a precisely defined meaning. Sometimes it is the place where the error happened, sometimes it is the place where an error was encoded into an error value. Usually the error source will give an indication to where to look for the problem. This is not always true, but it is attempted to achieve this goal.

A list of important error sources can be found in the next section.

The `gpgme_error_t` type is an alias for the `libgpg-error` type `gpg_error_t`. An error value like this has always two components, an error code and an error source. Both together form the error value.

Thus, the error value can not be directly compared against an error code, but the accessor functions described below must be used. However, it is guaranteed that only 0 is used to indicate success (`GPG_ERR_NO_ERROR`), and that in this case all other parts of the error value are set to 0, too.

Note that in `GPGME`, the error source is used purely for diagnostical purposes. Only the error code should be checked to test
for a certain outcome of a function. The manual only documents the
error code part of an error value. The error source is left
unspecified and might be anything.
@end deftp

@end deftypefun {static inline gpgme_err_code_t} gpgme_err_code (@w{gpgme_error_t @var{err}})
The static inline function @code{gpgme_err_code} returns the
@code{gpgme_err_code_t} component of the error value @var{err}. This
function must be used to extract the error code from an error value in
order to compare it with the @code{GPG_ERR_*} error code macros.
@end deftypefun

@end deftypefun {static inline gpgme_err_source_t} gpgme_err_source (@w{gpgme_error_t @var{err}})
The static inline function @code{gpgme_err_source} returns the
@code{gpgme_err_source_t} component of the error value @var{err}. This
function must be used to extract the error source from an error value in
order to compare it with the @code{GPG_ERR_SOURCE_*} error source macros.
@end deftypefun

@end deftypefun {static inline gpgme_error_t} gpgme_err_make (@w{gpgme_err_source_t @var{source}},
@w{gpgme_err_code_t @var{code}})
The static inline function @code{gpgme_err_make} returns the error
value consisting of the error source @var{source} and the error code
@var{code}.

This function can be used in callback functions to construct an error
value to return it to the library.
@end deftypefun

@end deftypefun {static inline gpgme_error_t} gpgme_error (@w{gpgme_err_code_t @var{code}})
The static inline function @code{gpgme_error} returns the error value
consisting of the default error source and the error code @var{code}.

For @acronym{GPGME} applications, the default error source is
@code{GPG_ERR_SOURCE_USER_1}. You can define
@code{GPGME_ERR_SOURCE_DEFAULT} before including @file{gpgme.h} to
change this default.

This function can be used in callback functions to construct an error
value to return it to the library.
@end deftypefun

The @code{libgpg-error} library provides error codes for all system
error numbers it knows about. If @var{err} is an unknown error
number, the error code @code{GPG_ERR_UNKNOWN_ERRNO} is used. The
following functions can be used to construct error values from system
error numbers.
The function `gpgme_err_make_from_errno` is like `gpgme_err_make`, but it takes a system error like `errno` instead of a `gpgme_err_code_t` error code.

The function `gpgme_error_from_errno` is like `gpgme_error`, but it takes a system error like `errno` instead of a `gpgme_err_code_t` error code.

Sometimes you might want to map system error numbers to error codes directly, or map an error code representing a system error back to the system error number. The following functions can be used to do that.

The library `libgpg-error` defines an error source for every component of the GnuPG system. The error source part of an error value is not well defined. As such it is mainly useful to improve the diagnostic error message for the user.

If the error code part of an error value is `0`, the whole error value will be `0`. In this case the error source part is of course `GPG_ERR_SOURCE_UNKNOWN`.

The list of error sources that might occur in applications using `GPGME` is:

- `GPG_ERR_SOURCE_UNKNOWN`
@item GPG_ERR_SOURCE_UNKNOWN
The error source is not known. The value of this error source is
@code{0}.

@item GPG_ERR_SOURCE_GPGME
The error source is @acronym{GPGME} itself. This is the default for
errors that occur in the @acronym{GPGME} library.

@item GPG_ERR_SOURCE_GPG
The error source is GnuPG, which is the crypto engine used for the
OpenPGP protocol.

@item GPG_ERR_SOURCE_GPGSM
The error source is GPGSM, which is the crypto engine used for the
CMS protocol.

@item GPG_ERR_SOURCE_GCRYPT
The error source is @code{libgcrypt}, which is used by crypto engines
to perform cryptographic operations.

@item GPG_ERR_SOURCE_GPGAGENT
The error source is @command{gpg-agent}, which is used by crypto
engines to perform operations with the secret key.

@item GPG_ERR_SOURCE_PINENTRY
The error source is @command{pinentry}, which is used by
@command{gpg-agent} to query the passphrase to unlock a secret key.

@item GPG_ERR_SOURCE_SCD
The error source is the SmartCard Daemon, which is used by
@command{gpg-agent} to delegate operations with the secret key to a
SmartCard.

@item GPG_ERR_SOURCE_KEYBOX
The error source is @code{libkbx}, a library used by the crypto
engines to manage local keyrings.

@item GPG_ERR_SOURCE_USER_1
@item GPG_ERR_SOURCE_USER_2
@item GPG_ERR_SOURCE_USER_3
@item GPG_ERR_SOURCE_USER_4
These error sources are not used by any GnuPG component and can be
used by other software. For example, applications using
@acronym{GPGME} can use them to mark error values coming from callback
handlers. Thus @code{GPG_ERR_SOURCE_USER_1} is the default for errors
created with @code{gpgme_error} and @code{gpgme_error_from_errno},
unless you define @code{GPGME_ERR_SOURCE_DEFAULT} before including
@file{gpgme.h}. 

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The library \texttt{libgpg-error} defines many error values. Most of them are not used by \texttt{GPGME} directly, but might be returned by \texttt{GPGME} because it received them from the crypto engine. The below list only includes such error codes that have a specific meaning in \texttt{GPGME}, or which are so common that you should know about them.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPG_ERR_EOF</td>
<td>This value indicates the end of a list, buffer or file.</td>
</tr>
<tr>
<td>GPG_ERR_NO_ERROR</td>
<td>This value indicates success. The value of this error code is \texttt{0}. Also, it is guaranteed that an error value made from the error code \texttt{0} will be \texttt{0} itself (as a whole). This means that the error source information is lost for this error code, however, as this error code indicates that no error occurred, this is generally not a problem.</td>
</tr>
<tr>
<td>GPG_ERR_GENERAL</td>
<td>This value means that something went wrong, but either there is not enough information about the problem to return a more useful error value, or there is no separate error value for this type of problem.</td>
</tr>
<tr>
<td>GPG_ERR_ENOMEM</td>
<td>This value means that an out-of-memory condition occurred.</td>
</tr>
<tr>
<td>GPG_ERR_E...</td>
<td>System errors are mapped to GPG_ERR_FOO where FOO is the symbol for the system error.</td>
</tr>
<tr>
<td>GPG_ERR_INV_VALUE</td>
<td>This value means that some user provided data was out of range. This can also refer to objects. For example, if an empty \texttt{gpgme_data_t} object was expected, but one containing data was provided, this error value is returned.</td>
</tr>
<tr>
<td>GPG_ERR_UNUSABLE_PUBKEY</td>
<td>This value means that some recipients for a message were invalid.</td>
</tr>
<tr>
<td>GPG_ERR_UNUSABLE_SECKEY</td>
<td></td>
</tr>
</tbody>
</table>

---

@node Error Codes
@section Error Codes
@cindex error codes, list of

---
This value means that some signers were invalid.

@item GPG_ERR_NO_DATA
This value means that a @code{gpgme_data_t} object which was expected to have content was found empty.

@item GPG_ERR_CONFLICT
This value means that a conflict of some sort occurred.

@item GPG_ERR_NOT_IMPLEMENTED
This value indicates that the specific function (or operation) is not implemented. This error should never happen. It can only occur if you use certain values or configuration options which do not work, but for which we think that they should work at some later time.

@item GPG_ERR_DECRYPT_FAILED
This value indicates that a decryption operation was unsuccessful.

@item GPG_ERR_BAD_PASSPHRASE
This value means that the user did not provide a correct passphrase when requested.

@item GPG_ERR_CANCELED
This value means that the operation was canceled.

@item GPG_ERR_INV_ENGINE
This value means that the engine that implements the desired protocol is currently not available. This can either be because the sources were configured to exclude support for this engine, or because the engine is not installed properly.

@item GPG_ERR_AMBIGUOUS_NAME
This value indicates that a user ID or other specifier did not specify a unique key.

@item GPG_ERR_WRONG_KEY_USAGE
This value indicates that a key is not used appropriately.

@item GPG_ERR_CERT_REVOKED
This value indicates that a key signature was revoked.

@item GPG_ERR_CERT_EXPIRED
This value indicates that a key signature expired.

@item GPG_ERR_NO_CRL_KNOWN
This value indicates that no certificate revocation list is known for the certificate.
@item GPG_ERR_NO_POLICY_MATCH
This value indicates that a policy issue occurred.

@item GPG_ERR_NO_SECKEY
This value indicates that no secret key for the user ID is available.

@item GPG_ERR_MISSING_CERT
This value indicates that a key could not be imported because the issuer certificate is missing.

@item GPG_ERR_BAD_CERT_CHAIN
This value indicates that a key could not be imported because its certificate chain is not good, for example it could be too long.

@item GPG_ERR_UNSUPPORTED_ALGORITHM
This value means a verification failed because the cryptographic algorithm is not supported by the crypto backend.

@item GPG_ERR_BAD_SIGNATURE
This value means a verification failed because the signature is bad.

@item GPG_ERR_NO_PUBKEY
This value means a verification failed because the public key is not available.

@item GPG_ERR_USER_1
@item GPG_ERR_USER_2
@item ...
@item GPG_ERR_USER_16
These error codes are not used by any GnuPG component and can be freely used by other software. Applications using @acronym{GPGME} might use them to mark specific errors returned by callback handlers if no suitable error codes (including the system errors) for these errors exist already.
@end table

@node Error Strings
@section Error Strings
@cindex error values, printing of
@cindex error codes, printing of
@cindex error sources, printing of
@cindex error strings

@deftypefun {const char *} gpgme_strerror (@w{gpgme_error_t @var{err}})
The function @code{gpgme_strerror} returns a pointer to a statically allocated string containing a description of the error code contained in the error value @var{err}. This string can be used to output a
This function is not thread safe. Use `gpgme_strerror_r` in multi-threaded programs.

```c
int gpgme_strerror_r (gpgme_error_t err, char *buf, size_t buflen)
```

The function `gpgme_strerror_r` returns the error string for `err` in the user-supplied buffer `buf` of size `buflen`. This function is, in contrast to `gpgme_strerror`, thread-safe if a thread-safe `strerror_r` function is provided by the system.

If the function succeeds, 0 is returned and `buf` contains the string describing the error. If the buffer was not large enough, `ERANGE` is returned and `buf` contains as much of the beginning of the error string as fits into the buffer.

```c
const char * gpgme_strerror (gpgme_error_t err)
```

The function `gpgme_strerror` returns a pointer to a statically allocated string containing a description of the error source contained in the error value `err`. This string can be used to output a diagnostic message to the user.

```c
example
gpgme_ctx_t ctx;
gpgme_error_t err = gpgme_new (&ctx);
if (err)
    @
        printf (stderr, "%s: creating GpgME context failed: %s: %s\n", argv[0], gpgme_strsource (err), gpgme_strerror (err));
    exit (1);
@end example
```

A lot of data has to be exchanged between the user and the crypto engine, like plaintext messages, ciphertext, signatures and information about the keys. The technical details about exchanging...
the data information are completely abstracted by @acronym{GPGME}. The user provides and receives the data via @code{gpgme_data_t} objects, regardless of the communication protocol between @acronym{GPGME} and the crypto engine in use.

@deftp {Data type} {gpgme_data_t}
The @code{gpgme_data_t} type is a handle for a container for generic data, which is used by @acronym{GPGME} to exchange data with the user.
@end deftp

@code{gpgme_data_t} objects do not provide notifications on events. It is assumed that read and write operations are blocking until data is available. If this is undesirable, the application must ensure that all GPGME data operations always have data available, for example by using memory buffers or files rather than pipes or sockets. This might be relevant, for example, if the external event loop mechanism is used.

@deftp {Data type} {gpgme_off_t}
@since{1.4.1}
On POSIX platforms the @code{gpgme_off_t} type is an alias for @code{off_t}; it may be used interchangeable. On Windows platforms @code{gpgme_off_t} is defined as a long (i.e. 32 bit) for 32 bit Windows and as a 64 bit signed integer for 64 bit Windows.
@end deftp

@deftp {Data type} {gpgme_ssize_t}
The @code{gpgme_ssize_t} type is an alias for @code{ssize_t}. It has only been introduced to overcome portability problems pertaining to the declaration of @code{ssize_t} by different toolchains.
@end deftp

@menu
* Creating Data Buffers:: Creating new data buffers.
* Destroying Data Buffers:: Releasing data buffers.
* Manipulating Data Buffers:: Operations on data buffers.
@end menu

Data objects can be based on memory, files, or callback functions provided by the user. Not all operations are supported by all objects.
Memory based data objects store all data in allocated memory. This is convenient, but only practical for an amount of data that is a fraction of the available physical memory. The data has to be copied from its source and to its destination, which can often be avoided by using one of the other data object.

```c
@deftypefun gpgme_error_t gpgme_data_new (@w{gpgme_data_t *@var{dh}})
  The function @code{gpgme_data_new} creates a new @code{gpgme_data_t} object and returns a handle for it in @var{dh}. The data object is memory based and initially empty.
  The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun
```

```c
@deftypefun gpgme_error_t gpgme_data_new_from_mem (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{buffer}}, @w{size_t @var{size}}, @w{int @var{copy}})
  The function @code{gpgme_data_new_from_mem} creates a new @code{gpgme_data_t} object and fills it with @var{size} bytes starting from @var{buffer}.
  If @var{copy} is not zero, a private copy of the data is made. If @var{copy} is zero, the data is taken from the specified buffer as needed, and the user has to ensure that the buffer remains valid for the whole life span of the data object.
  The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} or @var{buffer} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun
```

```c
@deftypefun gpgme_error_t gpgme_data_new_from_file (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{filename}}, @w{int @var{copy}})
```

The function @code{gpgme_data_new_from_file} creates a new @code{gpgme_data_t} object and fills it with the content of the file @var{filename}.

If @var{copy} is not zero, the whole file is read in at initialization time and the file is not used anymore after that. This is the only mode supported currently. Later, a value of zero for @var{copy} might cause all reads to be delayed until the data is needed, but this is not yet implemented.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} or @var{filename} is not a valid pointer, @code{GPG_ERR_NOT_IMPLEMENTED} if @var{code} is zero, and @code{GPG_ERR_ENOMEM} if not enough memory is available.

@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_filepart (@w{gpgme_data_t *@var{dh}}, @w{const char *@var{filename}}, @w{FILE *@var{fp}}, @w{off_t @var{offset}}, @w{size_t @var{length}})

The function @code{gpgme_data_new_from_filepart} creates a new @code{gpgme_data_t} object and fills it with a part of the file specified by @var{filename} or @var{fp}.

Exactly one of @var{filename} and @var{fp} must be non-zero, the other must be zero. The argument that is not zero specifies the file from which @var{length} bytes are read into the data object, starting from @var{offset}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the data object was successfully created, @code{GPG_ERR_INV_VALUE} if @var{dh} and exactly one of @var{filename} and @var{fp} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available.
@end deftypefun

@node File Based Data Buffers
@subsection File Based Data Buffers

File based data objects operate directly on file descriptors or streams. Only a small amount of data is stored in core at any time, so the size of the data objects is not limited by @acronym{GPGME}.

The function @code{gpgme_data_new_from_fd} creates a new @code{gpgme_data_t} object and uses the file descriptor @var{fd} to read from (if used as an input data object) and write to (if used as an output data object).
When using the data object as an input buffer, the function might read a bit more from the file descriptor than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the file descriptor is set to blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, and `GPG_ERR_ENOMEM` if not enough memory is available.

@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_stream (@w{gpgme_data_t *@var{dh}}, @w{FILE *@var{stream}})
The function `gpgme_data_new_from_stream` creates a new `gpgme_data_t` object and uses the I/O stream `@var{stream}` to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, and `GPG_ERR_ENOMEM` if not enough memory is available.

@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_from_estream (@w{gpgme_data_t *@var{dh}}, @w{gpgrt_stream_t @var{stream}})
The function `gpgme_data_new_from_estream` creates a new `gpgme_data_t` object and uses the gpgrt stream `@var{stream}` to read from (if used as an input data object) and write to (if used as an output data object).

When using the data object as an input buffer, the function might read a bit more from the stream than is actually needed by the crypto engine in the desired operation because of internal buffering.

Note that GPGME assumes that the stream is in blocking mode. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.
The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, and `GPG_ERR_ENOMEM` if not enough memory is available.
@end deftypefun

@node Callback Based Data Buffers
@subsection Callback Based Data Buffers

If neither memory nor file based data objects are a good fit for your application, you can implement the functions a data object provides yourself and create a data object from these callback functions.

@deftp {Data type} {ssize_t (*gpgme_data_read_cb_t) (@w{void *@var{handle}}, @w{void @var{*buffer}}, @w{size_t @var{size}})}
@tindex gpgme_data_read_cb_t

The `gpgme_data_read_cb_t` type is the type of functions which @acronym{GPGME} calls if it wants to read data from a user-implemented data object. The function should read up to `@var{size}` bytes from the current read position into the space starting at `@var{buffer}`. The `@var{handle}` is provided by the user at data object creation time.

Note that GPGME assumes that the read blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes read, 0 on EOF, and -1 on error. If an error occurs, `@var{errno}` should be set to describe the type of the error.
@end deftp

@deftp {Data type} {ssize_t (*gpgme_data_write_cb_t) (@w{void *@var{handle}}, @w{const void @var{*buffer}}, @w{size_t @var{size}})}
@tindex gpgme_data_write_cb_t

The `gpgme_data_write_cb_t` type is the type of functions which @acronym{GPGME} calls if it wants to write data to a user-implemented data object. The function should write up to `@var{size}` bytes to the current write position from the space starting at `@var{buffer}`. The `@var{handle}` is provided by the user at data object creation time.

Note that GPGME assumes that the write blocks until data is available. Errors during I/O operations, except for EINTR, are usually fatal for crypto operations.

The function should return the number of bytes written, and -1 on error. If an error occurs, `@var{errno}` should be set to describe the type of the error.
@end deftp
The \texttt{gpgme_data_seek_cb_t} type is the type of functions which \acro{GPGME} calls if it wants to change the current read/write position in a user-implemented data object, just like the \texttt{gpgme_data_seek} function.

The function should return the new read/write position, and -1 on error. If an error occurs, \texttt{errno} should be set to describe the type of the error.

The \texttt{gpgme_data_release_cb_t} type is the type of functions which \acro{GPGME} calls if it wants to destroy a user-implemented data object. The \texttt{handle} is provided by the user at data object creation time.

This structure is used to store the data callback interface functions described above. It has the following members:

\begin{table}[h]
\begin{itemize}
\item \texttt{gpgme_data_read_cb_t read}  
This is the function called by \acro{GPGME} to read data from the data object. It is only required for input data object.
\item \texttt{gpgme_data_write_cb_t write}  
This is the function called by \acro{GPGME} to write data to the data object. It is only required for output data object.
\item \texttt{gpgme_data_seek_cb_t seek}  
This is the function called by \acro{GPGME} to change the current read/write pointer in the data object (if available). It is optional.
\item \texttt{gpgme_data_release_cb_t release}  
This is the function called by \acro{GPGME} to release a data object. It is optional.
\end{itemize}
\end{table}
@code{gpgme_data_t} object and uses the user-provided callback functions
to operate on the data object.

The handle @var{handle} is passed as first argument to the callback
functions. This can be used to identify this data object.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
data object was successfully created, and @code{GPG_ERR_ENOMEM} if not
enough memory is available.
@end deftypefun

@node Destroying Data Buffers
@section Destroying Data Buffers
@cindex data buffer, destruction

@deftypefun void gpgme_data_release (@w{gpgme_data_t @var{dh}})
The function @code{gpgme_data_release} destroys the data object with
the handle @var{dh}. It releases all associated resources that were
not provided by the user in the first place.
@end deftypefun

@deftypefun {char *} gpgme_data_release_and_get_mem (@w{gpgme_data_t @var{dh}}, @w{size_t
 *@var{length}})
The function @code{gpgme_data_release_and_get_mem} is like
@code{gpgme_data_release}, except that it returns the data buffer and
its length that was provided by the object.

The user has to release the buffer with @code{gpgme_free}. In case
the user provided the data buffer in non-copy mode, a copy will be
made for this purpose.

In case an error returns, or there is no suitable data buffer that can
be returned to the user, the function will return @code{NULL}. In any
case, the data object @var{dh} is destroyed.
@end deftypefun

@deftypefun void gpgme_free (@w{void *@var{buffer}})
@since{1.1.1}
The function @code{gpgme_free} releases the memory returned by
@code{gpgme_data_release_and_get_mem} and
@code{gpgme_pubkey_algo_string}. It should be used instead of the
system libraries @code{free} function in case different allocators are
used by a program. This is often the case if gpgme is used under
Windows as a DLL.
@end deftypefun
Data buffers contain data and meta-data. The following operations can be used to manipulate both.

### Data Buffer I/O Operations

The function `gpgme_data_read` reads up to `length` bytes from the data object with the handle `dh` into the space starting at `buffer`.

If no error occurs, the actual amount read is returned. If the end of the data object is reached, the function returns 0.

In all other cases, the function returns -1 and sets `errno`.

### Data Buffer Meta-Data

The function `gpgme_data_write` writes up to `size` bytes starting from `buffer` into the data object with the handle `dh` at the current write position.

The function returns the number of bytes actually written, or -1 if an error occurs. If an error occurs, `errno` is set.

### Data Buffer Convenience

The function `gpgme_data_seek` seeks to `offset` bytes from the current write position in the data object with the handle `dh`.

If an error occurs, `errno` is set.
The function @code{gpgme_data_seek} changes the current read/write position.

The @var{whence} argument specifies how the @var{offset} should be interpreted. It must be one of the following symbolic constants:

@table @code
@item SEEK_SET
Specifies that @var{offset} is a count of characters from the beginning of the data object.

@item SEEK_CUR
Specifies that @var{offset} is a count of characters from the current file position. This count may be positive or negative.

@item SEEK_END
Specifies that @var{offset} is a count of characters from the end of the data object. A negative count specifies a position within the current extent of the data object; a positive count specifies a position past the current end. If you set the position past the current end, and actually write data, you will extend the data object with zeros up to that position.
@end table

If successful, the function returns the resulting file position, measured in bytes from the beginning of the data object. You can use this feature together with @code{SEEK_CUR} to read the current read/write position.

If the function fails, -1 is returned and @var{errno} is set.
@end deftypefun

@end deftypefun

@node Data Buffer Meta-Data
@section Data Buffer Meta-Data
@cindex data buffer, meta-data
@cindex data buffer, file name
@cindex data buffer, encoding

@end deftypefun

The function @code{gpgme_data_get_file_name} returns a pointer to a string containing the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.
If no error occurs, the string containing the file name is returned. Otherwise, `@code{NULL}` will be returned.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_set_file_name (@w{gpgme_data_t @var{dh}}, @w{const char *@var{file_name}})
@since{1.1.0}

The function `gpgme_data_set_file_name` sets the file name associated with the data object. The file name will be stored in the output when encrypting or signing the data and will be returned to the user when decrypting or verifying the output data.

The function returns the error code `GPG_ERR_INV_VALUE` if `@var{dh}` is not a valid pointer and `GPG_ERR_GMEM` if not enough memory is available.
@end deftypefun

@deftp {Data type} {enum gpgme_data_encoding_t}
@tindex gpgme_data_encoding_t
The `gpgme_data_encoding_t` type specifies the encoding of a `gpgme_data_t` object. For input data objects, the encoding is useful to give the backend a hint on the type of data. For output data objects, the encoding can specify the output data format on certain operations. Please note that not all backends support all encodings on all operations. The following data types are available:

@table @code
@item GPGME_DATA_ENCODING_NONE
This specifies that the encoding is not known. This is the default for a new data object. The backend will try its best to detect the encoding automatically.

@item GPGME_DATA_ENCODING_BINARY
This specifies that the data is encoding in binary form; i.e. there is no special encoding.

@item GPGME_DATA_ENCODING_BASE64
This specifies that the data is encoded using the Base-64 encoding scheme as used by @acronym{MIME} and other protocols.

@item GPGME_DATA_ENCODING_ARMOR
This specifies that the data is encoded in an armored form as used by OpenPGP and PEM.

@item GPGME_DATA_ENCODING_MIME

This specifies that the data is encoded as a MIME part.

@item GPGME_DATA_ENCODING_URL
@since{1.2.0}

The data is a list of linefeed delimited URLs. This is only useful with @code{gpgme_op_import}.

@item GPGME_DATA_ENCODING_URL0
@since{1.2.0}

The data is a list of binary zero delimited URLs. This is only useful with @code{gpgme_op_import}.

@item GPGME_DATA_ENCODING_URLESC
@since{1.2.0}

The data is a list of linefeed delimited URLs with all control and space characters percent escaped. This mode is not yet implemented.

@end table
@end deftp

@deftypefun gpgme_data_get_encoding (@w{gpgme_data_t @var{dh}})
The function @code{gpgme_data_get_encoding} returns the encoding of the data object with the handle @var{dh}. If @var{dh} is not a valid pointer (e.g. @code{NULL}) @code{GPGME_DATA_ENCODING_NONE} is returned.
@end deftypefun

@deftypefun gpgme_error_t gpgme_data_set_encoding (@w{gpgme_data_t @var{dh}, gpgme_data_encoding_t @var{enc}})
The function @code{gpgme_data_set_encoding} changes the encoding of the data object with the handle @var{dh} to @var{enc}.
@end deftypefun

@deftypefun {gpgme_error_t} gpgme_data_set_flag (@w{gpgme_data_t @var{dh}}, @w{const char *@var{name}}, @w{const char *@var{value}})
@since{1.7.0}

Some minor properties of the data object can be controlled with flags set by this function. The properties are identified by the following values for @var{name}:
The value is a decimal number with the length gpgme shall assume for this data object. This is useful if the data is provided by callbacks or via file descriptors but the applications knows the total size of the data. If this is set the OpenPGP engine may use this to decide on buffer allocation strategies and to provide a total value for its progress information.

This function returns @code{0} on success.

The @code{gpgme_data_type_t} type is used to return the detected type of the content of a data buffer.

This is returned by @code{gpgme_data_identify} if it was not possible to identify the data. Reasons for this might be a non-seekable stream or a memory problem. The value is 0.

The type of the data is not known.

The data is an OpenPGP signed message. This may be a binary signature, a detached one or a cleartext signature.

The data is an OpenPGP encrypted message.

The data is an OpenPGP detached signature.
This is a generic OpenPGP message. In most cases this will be encrypted data.

This is an OpenPGP key (private or public).

This is a CMS signed message.

This is a CMS encrypted (enveloped data) message.

This is used for other CMS message types.

The data is a X.509 certificate

The data is a PKCS#12 message. This is commonly used to exchange private keys for X.509.

The function `gpgme_data_identify` returns the type of the data with the handle `dh`. If it is not possible to perform the identification, the function returns zero (`GPGME_DATA_TYPE_INVALID`). Note that depending on how the data object has been created the identification may not be possible or the data object may change its internal state (file pointer moved). For file or memory based data object, the state should not change.

All cryptographic operations in `GPGME` are performed within a context, which contains the internal state of the operation as well as configuration parameters. By using several contexts you can run several cryptographic operations in parallel, with different configuration.

The `gpgme_ctx_t` type is a handle for a `GPGME` context, which is used to hold the configuration, status and result of cryptographic operations.
**Creating Contexts**
Creating new @acronym{GPGME} contexts.

**Destroying Contexts**
Releasing @acronym{GPGME} contexts.

**Result Management**
Managing the result of crypto operations.

**Context Attributes**
Setting properties of a context.

**Key Management**
Managing keys with @acronym{GPGME}.

**Trust Item Management**
Managing trust items with @acronym{GPGME}.

**Crypto Operations**
Using a context for cryptography.

**Miscellaneous**
Miscellaneous operations

**Run Control**
Controlling how operations are run.

---

**Creating Contexts**

@deftypefun gpgme_error_t gpgme_new (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_new} creates a new @code{gpgme_ctx_t} object and returns a handle for it in @var{ctx}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the context was successfully created, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if not enough memory is available. Also, it returns @code{GPG_ERR_NOT_OPERATIONAL} if @code{gpgme_check_version} was not called to initialize GPGME, and @code{GPG_ERR_SELFTEST_FAILED} if a selftest failed. Currently, the only selftest is for Windows MingW32 targets to see if @code{-mms-bitfields} was used (as required).

**Destroying Contexts**

@deftypefun void gpgme_release (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_release} destroys the context with the handle @var{ctx} and releases all associated resources.

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**Result Management**

@deftypefun void resultmanager::resultmanager (@w{resultmanager @var{self}})

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The detailed result of an operation is returned in operation-specific structures such as `gpgme_decrypt_result_t`. The corresponding retrieval functions such as `gpgme_op_decrypt_result` provide static access to the results after an operation completes. Those structures shall be considered read-only and an application must not allocate such a structure on its own. The following interfaces make it possible to detach a result structure from its associated context and give it a lifetime beyond that of the current operation or context.

```c
@deftypefun void gpgme_result_ref (@w{void *@var{result}})  
@since{1.2.0}
```

The function `gpgme_result_ref` acquires an additional reference for the result `@var{result}`, which may be of any type `gpgme_*_result_t`. As long as the user holds a reference, the result structure is guaranteed to be valid and unmodified.

```c
@deftypefun void gpgme_result_unref (@w{void *@var{result}})  
@since{1.2.0}
```

The function `gpgme_result_unref` releases a reference for the result `@var{result}`. If this was the last reference, the result structure will be destroyed and all resources associated to it will be released.

Note that a context may hold its own references to result structures, typically until the context is destroyed or the next operation is started. In fact, these references are accessed through the `gpgme_op_*_result` functions.

@node Context Attributes
@section Context Attributes
@cindex context, attributes
@menu
* Protocol Selection:: Selecting the protocol used by a context.
* Crypto Engine:: Configuring the crypto engine.
* Setting the Sender:: How to tell the engine the sender.
* ASCII Armor:: Requesting `ascii` armored output.
* Text Mode:: Choosing canonical text mode.
* Offline Mode:: Choosing offline mode.
* Pinentry Mode:: Choosing the pinentry mode.
* Included Certificates::including a number of certificates.
* Key Listing Mode:: Selecting key listing mode.
@end menu
* Passphrase Callback:: Getting the passphrase from the user.
* Progress Meter Callback:: Being informed about the progress.
* Status Message Callback:: Status messages received from gpg.
* Context Flags:: Additional flags for a context.
* Locale:: Setting the locale of a context.
* Additional Logs:: Additional logs of a context.
@end menu

@node Protocol Selection
@subsection Protocol Selection
@cindex context, selecting protocol
@cindex protocol, selecting

@deftypefun gpgme_error_t gpgme_set_protocol (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_protocol_t @var{proto}})
The function @code{gpgme_set_protocol} sets the protocol used within
the context @var{ctx} to @var{proto}. All crypto operations will be
performed by the crypto engine configured for that protocol.
@xref{Protocols and Engines}.

Setting the protocol with @code{gpgme_set_protocol} does intentionally
not check if the crypto engine for that protocol is available and
installed correctly. @xref{Engine Version Check}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
protocol could be set successfully, and @code{GPG_ERR_INV_VALUE} if
@var{protocol} is not a valid protocol.
@end deftypefun

@deftypefun gpgme_protocol_t gpgme_get_protocol (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_get_protocol} retrieves the protocol currently
use with the context @var{ctx}.
@end deftypefun

@node Crypto Engine
@subsection Crypto Engine
@cindex context, configuring engine
@cindex engine, configuration per context

The following functions can be used to set and retrieve the
configuration of the crypto engines of a specific context. The
default can also be retrieved without any particular context.
@xref{Engine Information}. The default can also be changed globally.
@xref{Engine Configuration}.

@deftypefun gpgme_engine_info_t gpgme_ctx_get_engine_info (@w{gpgme_ctx_t @var{ctx}})
The function `gpgme_ctx_get_engine_info` returns a linked list of engine info structures. Each info structure describes the configuration of one configured backend, as used by the context `ctx`.

The result is valid until the next invocation of `gpgme_ctx_set_engine_info` for this particular context.

This function can not fail.

The function `gpgme_ctx_set_engine_info` changes the configuration of the crypto engine implementing the protocol `proto` for the context `ctx`.

`file_name` is the file name of the executable program implementing this protocol, and `home_dir` is the directory name of the configuration directory for this crypto engine. If `home_dir` is `NULL`, the engine's default will be used.

Currently this function must be used before starting the first crypto operation. It is unspecified if and when the changes will take effect if the function is called after starting the first operation on the context `ctx`.

This function returns the error code `GPG_ERR_NO_ERROR` if successful, or an error code on failure.

Some engines can make use of the senders address, for example to figure out the best user id in certain trust models. For verification and signing of mails, it is thus suggested to let the engine know the sender ("From:" address). `GPGME` provides two functions to accomplish that. Note that the esoteric use of multiple "From:" addresses is not supported.
@deftypefun gpgme_error_t gpgme_set_sender (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{address}}))

@since{1.8.0}

The function @code{gpgme_set_sender} specifies the sender address for use in sign and verify operations. @var{address} is expected to be the ``addr-spec'' part of an address but my also be a complete mailbox address, in which case this function extracts the ``addr-spec'' from it. Using @code{NULL} for @var{address} clears the sender address. The function returns 0 on success or an error code on failure. The most likely failure is that no valid ``addr-spec'' was found in @var{address}.

@end deftypefun

@deftypefun @w{const char *} gpgme_get_sender (@w{gpgme_ctx_t @var{ctx}})

@since{1.8.0}

The function @code{gpgme_get_sender} returns the current sender address from the context, or NULL if none was set. The returned value is valid as long as the @var{ctx} is valid and @code{gpgme_set_sender} has not been called again.

@end deftypefun

c FIXME: Unfortunately, using @acronym{ASCII} here breaks texi2dvi. node ASCII Armor
subsection @acronym{ASCII} Armor
cindex context, armor mode
cindex @acronym{ASCII} armor
cindex armor mode

deftypefun void gpgme_set_armor (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{yes}}))
The function @code{gpgme_set_armor} specifies if the output should be @acronym{ASCII} armored. By default, output is not @acronym{ASCII} armored. @acronym{ASCII} armored output is disabled if @var{yes} is zero, and enabled otherwise.

deftypefun
The function `gpgme_get_armor` returns 1 if the output is \texttt{ASCII} armored, and 0 if it is not, or if `ctx` is not a valid pointer.

@deftypefun void gpgme_set_textmode (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{yes}})
The function `gpgme_set_textmode` specifies if canonical text mode should be used. By default, text mode is not used.

Text mode is for example used for the RFC2015 signatures; note that the updated RFC 3156 mandates that the mail user agent does some preparations so that text mode is not needed anymore.

This option is only relevant to the OpenPGP crypto engine, and ignored by all other engines.

Canonical text mode is disabled if `@var{yes}` is zero, and enabled otherwise.

@deftypefun int gpgme_get_textmode (@w{gpgme_ctx_t @var{ctx}})
The function `gpgme_get_textmode` returns 1 if canonical text mode is enabled, and 0 if it is not, or if `ctx` is not a valid pointer.

@node Offline Mode
@subsection Offline Mode
@cindex context, offline mode
@cindex offline mode

The function `gpgme_set_offline` specifies if offline mode should be used. Offline mode is disabled if `@var{yes}` is zero, and enabled otherwise. By default, offline mode is disabled.

@deftypefun void gpgme_set_offline (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{yes}}) @since{1.6.0}

The function `gpgme_set_offline` specifies if offline mode should be used. Offline mode is disabled if `@var{yes}` is zero, and enabled otherwise. By default, offline mode is disabled.
The details of the offline mode depend on the used protocol and its backend engine. It may eventually be extended to be more stricter and for example completely disable the use of Dirmngr for any engine.

For the CMS protocol the offline mode specifies whether Dirmngr shall be used to do additional validation that might require connecting external services (e.g. CRL / OCSP checks). Here the offline mode only affects the keylist mode `GPGME_KEYLIST_MODE_VALIDATE`.

For the OpenPGP protocol offline mode entirely disables the use of the Dirmngr and will thus guarantee that no network connections are done as part of an operation on this context. It has only an effect with GnuPG versions 2.1.23 or later.

For all other protocols the offline mode is currently ignored.

@end deftypefun

@deftypefun int gpgme_get_offline (@w{gpgme_ctx_t @var{ctx}})
@since{1.6.0}
The function `gpgme_get_offline` returns 1 if offline mode is enabled, and @code{0} if it is not, or if @var{ctx} is not a valid pointer.
@end deftypefun

@node Pinentry Mode
@subsection Pinentry Mode
@cindex context, pinentry mode
@cindex pinentry mode
@deftypefun gpgme_error_t gpgme_set_pinentry_mode (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_pinentry_mode_t @var{mode}})
@since{1.4.0}
The function `gpgme_set_pinentry_mode` specifies the pinentry mode to be used.

For GnuPG >= 2.1 this option is required to be set to `GPGME_PINENTRY_MODE_LOOPBACK` to enable the passphrase callback mechanism in GPGME through `gpgme_set_passphrase_cb`.
@end deftypefun

@deftypefun gpgme_pinentry_mode_t gpgme_get_pinentry_mode (@w{gpgme_ctx_t @var{ctx}})
@since{1.4.0}
The function @code{gpgme_get_pinentry_mode} returns the mode set for the context.
@end deftypefun

@end deftp @Data type @{enum gpgme_pinentry_mode_t\} @tindex gpgme_pinentry_mode_t
@since{1.4.0}

The @code{gpgme_pinentry_mode_t} type specifies the set of possible pinentry modes that are supported by @acronym{GPGME} if GnuPG >= 2.1 is used. The following modes are supported:

@table @code
@item GPGME_PINENTRY_MODE_DEFAULT
@since{1.4.0}
Use the default of the agent, which is ask.

@item GPGME_PINENTRY_MODE_ASK
@since{1.4.0}
Force the use of the Pinentry.

@item GPGME_PINENTRY_MODE_CANCEL
@since{1.4.0}
Emulate use of Pinentry's cancel button.

@item GPGME_PINENTRY_MODE_ERROR
@since{1.4.0}
Return a Pinentry error @code{No Pinentry}.

@item GPGME_PINENTRY_MODE_LOOPBACK
@since{1.4.0}
Redirect Pinentry queries to the caller. This enables the use of @code{gpgme_set_passphrase_cb} because pinentry queries are redirected to gpgme.

Note: For 2.1.0 - 2.1.12 this mode requires @code{allow-loopback-pinentry} to be enabled in the @file{gpg-agent.conf} or an agent started with that option.
@end table
@end deftp

@node Included Certificates
@subsection Included Certificates
@cindex certificates, included

@deftypefun void gpgme_set_include_certs (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{nr_of_certs}})
The function @code{gpgme_set_include_certs} specifies how many
certificates should be included in an S/MIME signed message. By
default, only the sender's certificate is included. The possible
values of @var{nr_of_certs} are:

@table @code
@item GPGME_INCLUDE_CERTS_DEFAULT
@since{1.0.3}
Fall back to the default of the crypto backend. This is the default
for GPGME.
@item -2
Include all certificates except the root certificate.
@item -1
Include all certificates.
@item 0
Include no certificates.
@item 1
Include the sender's certificate only.
@item n
Include the first n certificates of the certificates path, starting
from the sender's certificate. The number @code{n} must be positive.
@end table

Values of @var{nr_of_certs} smaller than -2 are undefined.

This option is only relevant to the CMS crypto engine, and ignored by
all other engines.
@end deftypefun

@deftypefun int gpgme_get_include_certs (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_get_include_certs} returns the number of
certificates to include into an S/MIME signed message.
@end deftypefun

@node Key Listing Mode
@subsection Key Listing Mode
@cindex key listing mode
@cindex key listing, mode of

@deftypefun gpgme_error_t gpgme_set_keylist_mode (@w{gpgme_ctx_t @var{ctx}},
@w{gpgme_keylist_mode_t @var{mode}})
The function @code{gpgme_set_keylist_mode} changes the default
The value in `@var{mode}` is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_KEYLIST_MODE_LOCAL
The @code{GPGME_KEYLIST_MODE_LOCAL} symbol specifies that the local keyring should be searched for keys in the keylisting operation. This is the default.

Using only this option results in a @code{--list-keys}.

@item GPGME_KEYLIST_MODE_EXTERN
The @code{GPGME_KEYLIST_MODE_EXTERN} symbol specifies that an external source should be searched for keys in the keylisting operation. The type of external source is dependent on the crypto engine used and whether it is combined with @code{GPGME_KEYLIST_MODE_LOCAL}. For example, it can be a remote keyserver or LDAP certificate server.

Using only this option results in a @code{--search-keys} for @code{GPGME_PROTOCOL_OpenPGP} and something similar to @code{--list-external-keys} for @code{GPGME_PROTOCOL_CMS}.

@item GPGME_KEYLIST_MODE_LOCATE
This is a shortcut for the combination of @code{GPGME_KEYLIST_MODE_LOCAL} and @code{GPGME_KEYLIST_MODE_EXTERN}, which results in a @code{--locate-keys} for @code{GPGME_PROTOCOL_OpenPGP}.

@item GPGME_KEYLIST_MODE_SIGS
The @code{GPGME_KEYLIST_MODE_SIGS} symbol specifies that the key signatures should be included in the listed keys.

@item GPGME_KEYLIST_MODE_SIG_NOTATIONS
@since{1.1.1}

The @code{GPGME_KEYLIST_MODE_SIG_NOTATIONS} symbol specifies that the signature notations on key signatures should be included in the listed keys. This only works if @code{GPGME_KEYLIST_MODE_SIGS} is also enabled.

@item GPGME_KEYLIST_MODE_WITH_TOFU
@since{1.7.0}

The @code{GPGME_KEYLIST_MODE_WITH_TOFU} symbol specifies that information pertaining to the TOFU trust model should be included in the listed keys.

@item GPGME_KEYLIST_MODE_WITH_SECRET
@since{1.5.1}
The `GPGME_KEYLIST_MODE_WITH_SECRET` returns information about the presence of a corresponding secret key in a public key listing. A public key listing with this mode is slower than a standard listing but can be used instead of a second run to list the secret keys. This is only supported for GnuPG versions >= 2.1.

`GPGME_KEYLIST_MODE_EPHEMERAL`
@since{1.2.0}

The `GPGME_KEYLIST_MODE_EPHEMERAL` symbol specifies that keys flagged as ephemeral are included in the listing.

`GPGME_KEYLIST_MODE_VALIDATE`
@since{0.4.5}

The `GPGME_KEYLIST_MODE_VALIDATE` symbol specifies that the backend should do key or certificate validation and not just get the validity information from an internal cache. This might be an expensive operation and is in general not useful. Currently only implemented for the S/MIME backend and ignored for other backends.

At least one of `GPGME_KEYLIST_MODE_LOCAL` and `GPGME_KEYLIST_MODE_EXTERN` must be specified. For future binary compatibility, you should get the current mode with `gpgme_get_keylist_mode` and modify it by setting or clearing the appropriate bits, and then using that calculated value in the `gpgme_set_keylisting_mode` operation. This will leave all other bits in the mode value intact (in particular those that are not used in the current version of the library).

The function returns the error code `GPG_ERR_NO_ERROR` if the mode could be set correctly, and `GPG_ERR_INV_VALUE` if `ctx` is not a valid pointer or `mode` is not a valid mode.

`gpgme_get_keylist_mode` returns the current key listing mode of the context `ctx`. This value can then be modified and used in a subsequent `gpgme_set_keylisting_mode` operation to only affect the desired bits (and leave all others intact).

The function returns 0 if `ctx` is not a valid pointer, and the current mode otherwise. Note that 0 is not a valid mode value.
Passphrase Callback
subsection Passphrase Callback
cindex callback, passphrase
cindex passphrase callback
deftyp {Data type} {gpgme_error_t (*gpgme_passphrase_cb_t)(void *@var{hook}, const char *@var{uid_hint}, const char *@var{passphrase_info}, @w{int @var{prev_was_bad}}, @w{int @var{fd}})}
tindex gpgme_passphrase_cb_t
The @code{gpgme_passphrase_cb_t} type is the type of functions usable as passphrase callback function.

The argument @var{uid_hint} might contain a string that gives an indication for which user ID the passphrase is required. If this is not available, or not applicable (in the case of symmetric encryption, for example), @var{uid_hint} will be @code{NULL}.

The argument @var{passphrase_info}, if not @code{NULL}, will give further information about the context in which the passphrase is required. This information is engine and operation specific.

If this is the repeated attempt to get the passphrase, because previous attempts failed, then @var{prev_was_bad} is 1, otherwise it will be 0.

The user must write the passphrase, followed by a newline character, to the file descriptor @var{fd}. The function @code{gpgme_io_writen} should be used for the write operation. Note that if the user returns 0 to indicate success, the user must at least write a newline character before returning from the callback.

If an error occurs, return the corresponding @code{gpgme_error_t} value. You can use the error code @code{GPG_ERR_CANCELED} to abort the operation. Otherwise, return @code{0}.

Note: The passphrase_cb only works with GnuPG 1.x and 2.1.x and not with the 2.0.x series. See @code{gpgme_set_pinentry_mode} for more details on 2.1.x usage.

deftyp void gpgme_set_passphrase_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_passphrase_cb_t @var{passfunc}}, @w{void *@var{hook_value}})
The function @code{gpgme_set_passphrase_cb} sets the function that is used when a passphrase needs to be provided by the user to @var{passfunc}. The function @var{passfunc} needs to be implemented by the user, and whenever it is called, it is called with its first
argument being @var{hook_value}. By default, no passphrase callback function is set.

Not all crypto engines require this callback to retrieve the passphrase. It is better if the engine retrieves the passphrase from a trusted agent (a daemon process), rather than having each user to implement their own passphrase query. Some engines do not even support an external passphrase callback at all, in this case the error code @code{GPG_ERR_NOT_SUPPORTED} is returned.

For GnuPG >= 2.1 the pinentry mode has to be set to @code{GPGME_PINENTRY_MODE_LOOPBACK} to enable the passphrase callback. See @code{gpgme_set_pinentry_mode}.

The user can disable the use of a passphrase callback function by calling @code{gpgme_set_passphrase_cb} with @var{passfunc} being @code{NULL}.
@end deftypefun

@deftypefun void gpgme_get_passphrase_cb (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_passphrase_cb_t *@var{passfunc}}, @w{void **@var{hook_value}})

The function @code{gpgme_get_passphrase_cb} returns the function that is used when a passphrase needs to be provided by the user in @var{*passfunc}, and the first argument for this function in @var{*hook_value}. If no passphrase callback is set, or @var{ctx} is not a valid pointer, @code{NULL} is returned in both variables.

@var{passfunc} or @var{hook_value} can be @code{NULL}. In this case, the corresponding value will not be returned.
@end deftypefun

@node Progress Meter Callback
@section Progress Meter Callback
@cindex callback, progress meter
@cindex progress meter callback
@deftp {Data type} {void (*gpgme_progress_cb_t)(void *@var{hook}, const char *@var{what}, int @var{type}, int @var{current}, int @var{total})}
@tindex gpgme_progress_cb_t

The @code{gpgme_progress_cb_t} type is the type of functions usable as progress callback function.

The arguments are specific to the crypto engine. More information about the progress information returned from the GnuPG engine can be found in the GnuPG source code in the file @file{doc/DETAILS} in the section PROGRESS.
@end deftp
The function `gpgme_set_progress_cb` sets the function that is used when progress information about a cryptographic operation is available. The function `gprogfunc` needs to be implemented by the user, and whenever it is called, it is called with its first argument being `hook_value`. By default, no progress callback function is set.

Setting a callback function allows an interactive program to display progress information about a long operation to the user.

The user can disable the use of a progress callback function by calling `gpgme_set_progress_cb` with `progfunc` being `NULL`.

The function `gpgme_get_progress_cb` returns the function that is used to inform the user about the progress made in `progfunc`, and the first argument for this function in `hook_value`. If no progress callback is set, or if `ctx` is not a valid pointer, `NULL` is returned in both variables.

If `progfunc` or `hook_value` can be `NULL`. In this case, the corresponding value will not be returned.

The `gpgme_status_cb_t` type is the type of function usable as a status message callback function.

The argument `keyword` is the name of the status message while the `args` argument contains any arguments for the status message.

If an error occurs, return the corresponding `gpgme_error_t` value. Otherwise, return `0`.
The function `gpgme_set_status_cb` sets the function that is used when a status message is received from gpg to `statusfunc`. The function `statusfunc` needs to be implemented by the user, and whenever it is called, it is called with its first argument being `hook_value`. By default, no status message callback function is set.

The user can disable the use of a status message callback function by calling `gpgme_set_status_cb` with `statusfunc` being `NULL`.

The function `gpgme_get_status_cb` returns the function that is used to process status messages from gpg in `statusfunc`, and the first argument for this function in `hook_value`. If no status message callback is set, or `ctx` is not a valid pointer, `NULL` is returned in both variables.

Some minor properties of the context can be controlled with flags set by this function. The properties are identified by the following values for `name`:

- **"redraw"**
  
  This flag is normally not changed by the caller because GPGME sets and clears it automatically: The flag is cleared before an operation and set if an operation noticed that the engine has launched a Pinentry. A Curses based application may use this information to redraw the screen; for example:
@example
err = gpgme_op_keylist_start (ctx, "foo@example.org", 0);
while (!err)
@
err = gpgme_op_keylist_next (ctx, &key);
if (err)
break;
show_key (key);
gpgme_key_release (key);
@
if ((s = gpgme_get_ctx_flag (ctx, "redraw")) && *s)
redraw_screen ();
gpgme_release (ctx);
@end example

@item "full-status"
Using a @var{value} of "1" the status callback set by
gpgme_set_status_cb returns all status lines with the exception of
PROGRESS lines. With the default of "0" the status callback is only
called in certain situations.

@item "raw-description"
Setting the @var{value} to "1" returns human readable strings in a raw
format. For example the non breaking space characters ("~") will not
be removed from the @code{description} field of the
@code{gpgme_tofu_info_t} object.

@item "export-session-key"
Using a @var{value} of "1" specifies that the context should try to
export the symmetric session key when decrypting data. By default, or
when using an empty string or "0" for @var{value}, session keys are
not exported.

@item "override-session-key"
The string given in @var{value} is passed to the GnuPG engine to override
the session key for decryption. The format of that session key is
specific to GnuPG and can be retrieved during a decrypt operation when
the context flag "export-session-key" is enabled. Please be aware that
using this feature with GnuPG < 2.1.16 will leak the session key on
many platforms via ps(1).

@item "auto-key-retrieve"
Setting the @var{value} to "1" asks the backend to automatically
retrieve a key for signature verification if possible. Note that this
option makes a "web bug" like behavior possible. Keyserver or Web Key
Directory operators can see which keys you request, so by sending you
a message signed by a brand new key (which you naturally will not have on your local keyring), the operator can tell both your IP address and the time when you verified the signature.

@item "request-origin"
The string given in @var{value} is passed to the GnuPG engines to request restrictions based on the origin of the request. Valid values are documented in the GnuPG manual and the gpg man page under the option @option{--request-origin}. Requires at least GnuPG 2.2.6 to have an effect.

@item "no-symkey-cache"
For OpenPGP disable the passphrase cache used for symmetrical en- and decryption. This cache is based on the message specific salt value. Requires at least GnuPG 2.2.7 to have an effect.

@item "ignore-mdc-error"
This flag passes the option @option{--ignore-mdc-error} to gpg. This can be used to force decryption of a message which failed due to a missing integrity check. This flag must be used with great caution and only if it is a known non-corrupted old message and the decryption result of the former try had the decryption result flag @code{legacy_cipher_nomdc} set. For failsafe reasons this flag is reset after each operation.

@item "auto-key-locate"
The string given in @var{value} is passed to gpg. This can be used to change the behavior of a @code{GPGME_KEYLIST_MODE_LOCATE} keylisting. Valid values are documented in the GnuPG manual and the gpg man page under the option @option{--auto-key-locate}. Requires at least GnuPG 2.1.18.

Note: Keys retrieved through @code{auto-key-locate} are automatically imported in the keyring.

@item trust-model
@since{1.11.2}

Change the trust-model for all GnuPG engine operations. An empty string sets the trust-model back to the users default. If the trust-model is not supported by GnuPG the behavior is undefined and will likely cause all operations to fail. Example: "tofu+pgp".

This options should be used carefully with a strict version requirement. In some versions of GnuPG setting the trust-model changes the default trust-model for future operations. A change in the trust-model also can have unintended side effects, like rebuilding the trust-db.
This function returns `0` on success.
@end deftypefun

```c
@deftypefun {const char *} gpgme_get_ctx_flag (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{name}})
@end deftypefun
```

The value of flags settable by `gpgme_set_ctx_flag` can be retrieved by this function. If `@var{name}` is unknown the function returns `NULL`. For boolean flags an empty string is returned for False and the string "1" is returned for True; either `atoi(3)` or a test for an empty string can be used to get the boolean value.

@end deftypefun

A locale setting can be associated with a context. This locale is passed to the crypto engine, and used for applications like the PIN entry, which is displayed to the user when entering a passphrase is required.

The default locale is used to initialize the locale setting of all contexts created afterwards.

```c
@deftypefun gpgme_error_t gpgme_set_locale (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{category}}, @w{const char *@var{value}})
@end deftypefun
```

The function `gpgme_set_locale` sets the locale of the context `@var{ctx}`, or the default locale if `@var{ctx}` is a null pointer.

The locale settings that should be changed are specified by `@var{category}`. Supported categories are `LC_CTYPE`, `LC_MESSAGES`, and `LC_ALL`, which is a wildcard you can use if you want to change all the categories at once.

The value to be used for the locale setting is `@var{value}`, which will
be copied to @acronym{GPGME}’s internal data structures. @var{value} can be a null pointer, which disables setting the locale, and will make PIN entry and other applications use their default setting, which is usually not what you want.

Note that the settings are only used if the application runs on a text terminal, and that the settings should fit the configuration of the output terminal. Normally, it is sufficient to initialize the default value at startup.

The function returns an error if not enough memory is available.
@end deftypefun

Additional logs can be associated with a context. These logs are engine specific and can be obtained with @code{gpgme_op_getauditlog}.

@deftypefun gpgme_error_t gpgme_op_getauditlog (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{output}}, @w{unsigned int @var{flags}})
@since{1.1.1}

The function @code{gpgme_op_getauditlog} is used to obtain additional logs as specified by @var{flags} into the @var{output} data. If no log is available @code{GPG_ERR_NO_DATA} is returned.

The value in @var{flags} is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_AUDITLOG_DIAG
@since{1.11.2}

Obtain diagnostic output which would be written to @code{stderr} in interactive use of the engine. This can be used to provide additional diagnostic information in case of errors in other operations.

Note: If log-file has been set in the configuration the log will be empty and @code{GPG_ERR_NO_DATA} will be returned.
Implemented for: `GPGME_PROTOCOL_OpenPGP`

- `GPGME_AUDITLOG_DEFAULT`
  @since{1.11.2}

This flag has the value 0 for compatibility reasons. Obtains additional information from the engine by issuing the `GETAUDITLOG` command. For `GPGME_PROTOCOL_CMS` this provides additional information about the X509 certificate chain.

Implemented for: `GPGME_PROTOCOL_CMS`

- `GPGME_AUDITLOG_HTML`
  @since{1.1.1}

Same as `GPGME_AUDITLOG_DEFAULT` but in HTML.

Implemented for: `GPGME_PROTOCOL_CMS`
@end table
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_getauditlog_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{output}}, @w{unsigned int @var{flags}})
  @since{1.1.1}

This is the asynchronous variant of `gpgme_op_getauditlog`.
@end deftypefun

@node Key Management
@section Key Management
@cindex key management

Some of the cryptographic operations require that recipients or signers are specified. This is always done by specifying the respective keys that should be used for the operation. The following section describes how such keys can be selected and manipulated.

@menu
  * Key objects:: Description of the key structures.
  * Listing Keys:: Browsing the list of available keys.
  * Information About Keys:: Requesting detailed information about keys.
  * Manipulating Keys:: Operations on keys.
  * Generating Keys:: Creating new key pairs.
  * Signing Keys:: Adding key signatures to public keys.
  * Exporting Keys:: Retrieving key data from the key ring.
@end menu
* Importing Keys:: Adding keys to the key ring.
* Deleting Keys:: Removing keys from the key ring.
* Changing Passphrases:: Change the passphrase of a key.
* Changing TOFU Data:: Changing data pertaining to TOFU.
* Advanced Key Editing:: Advanced key edit operation.
@end menu

@node Key objects
@subsection Key objects

The keys are represented in GPGME by structures which may only be read by the application but never be allocated or changed. They are valid as long as the key object itself is valid.

@deftp {Data type} gpgme_key_t

The @code{gpgme_key_t} type is a pointer to a key object. It has the following members:

@table @code
@item gpgme_keylist_mode_t keylist_mode
@since{0.9.0}
The keylist mode that was active when the key was retrieved.

@item unsigned int revoked : 1
This is true if the key is revoked.

@item unsigned int expired : 1
This is true if the key is expired.

@item unsigned int disabled : 1
This is true if the key is disabled.

@item unsigned int invalid : 1
This is true if the key is invalid. This might have several reasons, for example for the S/MIME backend, it will be set during key listings if the key could not be validated due to missing certificates or unmatched policies.

@item unsigned int can_encrypt : 1
This is true if the key (ie one of its subkeys) can be used for encryption.

@item unsigned int can_sign : 1
This is true if the key (ie one of its subkeys) can be used to create data signatures.
@item unsigned int can_certify : 1
This is true if the key (ie one of its subkeys) can be used to create key certificates.

@item unsigned int can_authenticate : 1
@since{0.4.5}
This is true if the key (ie one of its subkeys) can be used for authentication.

@item unsigned int is_qualified : 1
@since{1.1.0}
This is true if the key can be used for qualified signatures according to local government regulations.

@item unsigned int secret : 1
This is true if the key is a secret key. Note, that this will always be true even if the corresponding subkey flag may be false (offline/stub keys). This is only set if a listing of secret keys has been requested or if @code{GPGME_KEYLIST_MODE_WITH_SECRET} is active.

@item unsigned int origin : 5
@since{1.8.0}
Reserved for the origin of this key.

@item gpgme_protocol_t protocol
This is the protocol supported by this key.

@item char *issuer_serial
If @code{protocol} is @code{GPGME_PROTOCOL_CMS}, then this is the issuer serial.

@item char *issuer_name
If @code{protocol} is @code{GPGME_PROTOCOL_CMS}, then this is the issuer name.

@item char *chain_id
If @code{protocol} is @code{GPGME_PROTOCOL_CMS}, then this is the chain ID, which can be used to build the certificate chain.

@item gpgme_validity_t owner_trust
If @code{protocol} is @code{GPGME_PROTOCOL_OpenPGP}, then this is the owner trust.

@item gpgme_subkey_t subkeys
This is a linked list with the subkeys of the key. The first subkey
in the list is the primary key and usually available.

@item gpgme_user_id_t uids
This is a linked list with the user IDs of the key. The first user ID in the list is the main (or primary) user ID.

@item char *fpr
@since{1.7.0}

This field gives the fingerprint of the primary key. Note that this is a copy of the fingerprint of the first subkey. For an incomplete key (for example from a verification result) a subkey may be missing but this field may be set nevertheless.

@item unsigned long last_update
@since{1.8.0}

Reserved for the time of the last update of this key.

@end table
@end deftp

@deftp {Data type} gpgme_subkey_t
@since{1.5.0}

The @code{gpgme_subkey_t} type is a pointer to a subkey structure. Subkeys are one component of a @code{gpgme_key_t} object. In fact, subkeys are those parts that contains the real information about the individual cryptographic keys that belong to the same key object. One @code{gpgme_key_t} can contain several subkeys. The first subkey in the linked list is also called the primary key.

The subkey structure has the following members:

@table @code
@item gpgme_subkey_t next
This is a pointer to the next subkey structure in the linked list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the subkey is revoked.

@item unsigned int expired : 1
This is true if the subkey is expired.

@item unsigned int disabled : 1
This is true if the subkey is disabled.
@item unsigned int invalid : 1
This is true if the subkey is invalid.

@item unsigned int can_encrypt : 1
This is true if the subkey can be used for encryption.

@item unsigned int can_sign : 1
This is true if the subkey can be used to create data signatures.

@item unsigned int can_certify : 1
This is true if the subkey can be used to create key certificates.

@item unsigned int can_authenticate : 1
@since{0.4.5}
This is true if the subkey can be used for authentication.

@item unsigned int is_qualified : 1
@since{1.1.0}
This is true if the subkey can be used for qualified signatures according to local government regulations.

@item unsigned int is_de_vs : 1
@since{1.8.0}
This is true if the subkey complies with the rules for classified information in Germany at the restricted level (VS-NfD). This are currently RSA keys of at least 2048 bits or ECDH/ECDSA keys using a Brainpool curve.

@item unsigned int secret : 1
This is true if the subkey is a secret key. Note that it will be false if the key is actually a stub key; i.e. a secret key operation is currently not possible (offline-key). This is only set if a listing of secret keys has been requested or if
@code{GPGME_KEYLIST_MODE_WITH_SECRET} is active.

@item gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm supported by this subkey.

@item unsigned int length
This is the length of the subkey (in bits).

@item char *keyid
This is the key ID of the subkey in hexadecimal digits.
@item char *fpr
This is the fingerprint of the subkey in hexadecimal digits, if available.

@item char *keygrip
@since{1.7.0}
The keygrip of the subkey in hex digit form or @code{NULL} if not available.

@item long int timestamp
This is the creation timestamp of the subkey. This is -1 if the timestamp is invalid, and 0 if it is not available.

@item long int expires
This is the expiration timestamp of the subkey, or 0 if the subkey does not expire.

@item unsigned int is_cardkey : 1
@since{1.2.0}
True if the secret key is stored on a smart card.

@item char *card_number
@since{1.2.0}
The serial number of a smart card holding this key or @code{NULL}.

@item char *curve
For ECC algorithms the name of the curve.

@end table
@end deftp

@deftp {Data type} gpgme_user_id_t
A user ID is a component of a @code{gpgme_key_t} object. One key can have many user IDs. The first one in the list is the main (or primary) user ID.

The user ID structure has the following members.

@table @code
@item gpgme_user_id_t next
This is a pointer to the next user ID structure in the linked list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the user ID is revoked.

@item unsigned int invalid : 1
This is true if the user ID is invalid.

@item gpgme_validity_t validity
This specifies the validity of the user ID.

@item char *uid
This is the user ID string.

@item char *name
This is the name component of @code{uid}, if available.

@item char *comment
This is the comment component of @code{uid}, if available.

@item char *email
This is the email component of @code{uid}, if available.

@item char *address;
The mail address (addr-spec from RFC-5322) of the user ID string.
This is general the same as the @code{email} part of this structure but might be slightly different. If no mail address is available @code{NULL} is stored.

@item gpgme_tofu_info_t tofu
@since{1.7.0}
If not @code{NULL} information from the TOFU database pertaining to this user id.

@item gpgme_key_sig_t signatures
This is a linked list with the signatures on this user ID.

@item unsigned int origin : 5
@since{1.8.0}
Reserved for the origin of this user ID.

@item unsigned long last_update
@since{1.8.0}
Reserved for the time of the last update of this user ID.

@end table
@end deftp
The `gpgme_tofu_info_t` type is a pointer to a tofu info structure. Tofu info structures are one component of a `gpgme_user_id_t` object, and provide information from the TOFU database pertaining to the user ID.

The tofu info structure has the following members:

- `gpgme_key_sig_t next`: This is a pointer to the next tofu info structure in the linked list, or `NULL` if this is the last element.
- `unsigned int validity : 3`: This is the TOFU validity. It can have the following values:
  - `0`: The value indicates a conflict.
  - `1`: The value indicates a key without history.
  - `2`: The value indicates a key with too little history.
  - `3`: The value indicates a key with enough history for basic trust.
  - `4`: The value indicates a key with a lot of history.
- `unsigned int policy : 4`: This is the TOFU policy, see `gpgme_tofu_policy_t`.
- `unsigned short signcount`: This is the number of signatures seen for this binding (or `USHRT_MAX` if there are more than that).
- `unsigned short encrcount`: This is the number of encryptions done with this binding (or `USHRT_MAX` if there are more than that).
@item unsigned long signfirst
Number of seconds since Epoch when the first signature was seen with
this binding.

@item unsigned long signlast
Number of seconds since Epoch when the last signature was seen with
this binding.

@item unsigned long encrfirst
Number of seconds since Epoch when the first encryption was done with
this binding.

@item unsigned long encrlast
Number of seconds since Epoch when the last encryption was done with
this binding.

@item char *description
A human-readable string summarizing the TOFU data (or NULL).

@end table
@end deftp

@deftp {Data type} gpgme_key_sig_t

The @code{gpgme_key_sig_t} type is a pointer to a key signature structure.
Key signatures are one component of a @code{gpgme_key_t} object, and
validate user IDs on the key in the OpenPGP protocol.

The signatures on a key are only available if the key was retrieved
via a listing operation with the @code{GPGME_KEYLIST_MODE_SIGS} mode
enabled, because it can be expensive to retrieve all signatures of a
key.

The signature notations on a key signature are only available if the
key was retrieved via a listing operation with the
@code{GPGME_KEYLIST_MODE_SIG_NOTATIONS} mode enabled, because it can
be expensive to retrieve all signature notations.

The key signature structure has the following members:

@table @code
@item gpgme_key_sig_t next
This is a pointer to the next key signature structure in the linked
list, or @code{NULL} if this is the last element.

@item unsigned int revoked : 1
This is true if the key signature is a revocation signature.

@item unsigned int expired : 1
This is true if the key signature is expired.

@item unsigned int invalid : 1
This is true if the key signature is invalid.

@item unsigned int exportable : 1
This is true if the key signature is exportable.

@item gpgme_pubkey_algo_t pubkey_algo
This is the public key algorithm used to create the signature.

@item char *keyid
This is the key ID of the key (in hexadecimal digits) used to create the signature.

@item long int timestamp
This is the creation timestamp of the key signature. This is -1 if the timestamp is invalid, and 0 if it is not available.

@item long int expires
This is the expiration timestamp of the key signature, or 0 if the key signature does not expire.

@item gpgme_error_t status
This is the status of the signature and has the same meaning as the member of the same name in a @code{gpgme_signature_t} object.

@item unsigned int sig_class
This specifies the signature class of the key signature. The meaning is specific to the crypto engine.

@item char *uid
This is the main user ID of the key used to create the signature.

@item char *name
This is the name component of @code{uid}, if available.

@item char *comment
This is the comment component of @code{uid}, if available.

@item char *email
This is the email component of @code{uid}, if available.

@item gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.
The function `gpgme_op_keylist_start` initiates a key listing operation inside the context `ctx`. It sets everything up so that subsequent invocations of `gpgme_op_keylist_next` return the keys in the list.

If `pattern` is `NULL`, all available keys are returned. Otherwise, `pattern` contains an engine specific expression that is used to limit the list to all keys matching the pattern. Note that the total length of the pattern is restricted to an engine-specific maximum (a couple of hundred characters are usually accepted). The pattern should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If `secret_only` is not `0`, the list is restricted to secret keys only.

The context will be busy until either all keys are received (and `gpgme_op_keylist_next` returns `GPG_ERR_EOF`), or `gpgme_op_keylist_end` is called to finish the operation.

The function returns the error code `GPG_ERR_INV_VALUE` if `ctx` is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

The function `gpgme_op_keylist_ext_start` initiates an extended key listing operation inside the context `ctx`. It sets everything up so that subsequent invocations of
@code{gpgme_op_keylist_next} return the keys in the list.

If @var{pattern} or @var{*pattern} is @code{NULL}, all available keys are returned. Otherwise, @var{pattern} is a @code{NULL} terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim. Note that the total length of all patterns is restricted to an engine-specific maximum (the exact limit also depends on the number of patterns and amount of quoting required, but a couple of hundred characters are usually accepted). Patterns should be used to restrict the search to a certain common name or user, not to list many specific keys at once by listing their fingerprints or key IDs.

If @var{secret_only} is not @code{0}, the list is restricted to secret keys only.

The value of @var{reserved} must be @code{0}.

The context will be busy until either all keys are received (and @code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_keylist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_from_data_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{data}}, @w{int @var{reserved}})

The function @code{gpgme_op_keylist_from_data_start} initiates a key listing operation inside the context @var{ctx}. In contrast to the other key listing operation the keys are read from the supplied @var{data} and not from the local key database. The keys are also not imported into the local key database. The function sets everything up so that subsequent invocations of @code{gpgme_op_keylist_next} return the keys from @var{data}.

The value of @var{reserved} must be @code{0}.

This function requires at least GnuPG version 2.1.14 and currently works only with OpenPGP keys.

The context will be busy until either all keys are received (and
@code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}), or
@code{gpgme_op_keylist_end} is called to finish the operation.
While the context is busy @var{data} may not be released.

The function returns the error code @code{GPG_ERR_INV_VALUE} if
@var{ctx} is not a valid pointer, and passes through any errors that
are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_next (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t *
@var{r_key}})

The function @code{gpgme_op_keylist_next} returns the next key in the
list created by a previous @code{gpgme_op_keylist_start} operation in
the context @var{ctx}. The key will have one reference for the user.
@xref{Manipulating Keys}.

This is the only way to get at @code{gpgme_key_t} objects in
@acronym{GPGME}.

If the last key in the list has already been returned,
@code{gpgme_op_keylist_next} returns @code{GPG_ERR_EOF}.

The function returns the error code @code{GPG_ERR_INV_VALUE} if
@var{ctx} or @var{r_key} is not a valid pointer, and
@code{GPG_ERR_ENOMEM} if there is not enough memory for the operation.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keylist_end (@w{gpgme_ctx_t @var{ctx}})

The function @code{gpgme_op_keylist_end} ends a pending key list
operation in the context @var{ctx}.

After the operation completed successfully, the result of the key
listing operation can be retrieved with
@code{gpgme_op_keylist_result}.

The function returns the error code @code{GPG_ERR_INV_VALUE} if
@var{ctx} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if at some
time during the operation there was not enough memory available.
@end deftypefun

The following example illustrates how all keys containing a certain
string (@code{g10code}) can be listed with their key ID and the name
and email address of the main user ID:

@example
gpgme_ctx_t ctx;

```c
```
gpgme_key_t key;
gpgme_error_t err = gpgme_new (&ctx);

if (!err) {
    @{
        err = gpgme_op_keylist_start (ctx, "g10code", 0);
        while (!err) {
            @{
                err = gpgme_op_keylist_next (ctx, &key);
                if (err)
                    break;
                printf ("%s:", key->subkeys->keyid);
                if (key->uids && key->uids->name)
                    printf (" %s", key->uids->name);
                if (key->uids && key->uids->email)
                    printf (" <%s>", key->uids->email);
                putchar (\n);
                gpgme_key_release (key);
            }
            gpgme_release (ctx);
        }
        if (gpg_err_code (err) != GPG_ERR_EOF)
            @{
                fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
                exit (1);
            }
    }
    if (gpg_err_code (err) != GPG_ERR_EOF)
        @{
            gpgme_op_keylist_result_t gpgme_op_keylist_result (@w{gpgme_ctx_t @var{ctx}})
        }
        fprintf (stderr, "can not list keys: %s\n", gpgme_strerror (err));
        exit (1);
    @}
@end example

@deftp {Data type} {gpgme_keylist_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_keylist_*} operation. After successfully ending a key
listing operation, you can retrieve the pointer to the result with
@code{gpgme_op_keylist_result}. The structure contains the following
member:

@table @code
@item unsigned int truncated : 1
This is true if the crypto backend had to truncate the result, and
less than the desired keys could be listed.
@end table
@end deftp

@deftypefun gpgme_keylist_result_t gpgme_op_keylist_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_keylist_result} returns a
@code{gpgme_keylist_result_t} pointer to a structure holding the
result of a @code{gpgme_op_keylist_*} operation. The pointer is only
valid if the last operation on the context was a key listing
operation, and if this operation finished successfully. The returned
pointer is only valid until the next operation is started on the context.
@end deftypefun

In a simple program, for which a blocking operation is acceptable, the following function can be used to retrieve a single key.

@deftypefun gpgme_error_t gpgme_get_key (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{fpr}}, @w{gpgme_key_t *@var{r_key}}, @w{int @var{secret}})
The function @code{gpgme_get_key} gets the key with the fingerprint (or key ID) @var{fpr} from the crypto backend and return it in @var{r_key}. If @var{secret} is true, get the secret key. The currently active keylist mode is used to retrieve the key. The key will have one reference for the user.

If the key is not found in the keyring, @code{gpgme_get_key} returns the error code @code{GPG_ERR_EOF} and *@var{r_key} will be set to @code{NULL}.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{r_key} is not a valid pointer or @var{fpr} is not a fingerprint or key ID, @code{GPG_ERR_AMBIGUOUS_NAME} if the key ID was not a unique specifier for a key, and @code{GPG_ERR_ENOMEM} if at some time during the operation there was not enough memory available.
@end deftypefun

@node Information About Keys
@subsection Information About Keys
@cindex key, information about
@cindex key, attributes
@cindex attributes, of a key

Please see the beginning of this section for more information about @code{gpgme_key_t} objects.

@deftp {Data type} gpgme_validity_t
The @code{gpgme_validity_t} type is used to specify the validity of a user ID in a key. The following validities are defined:

@table @code
@item GPGME_VALIDITY_UNKNOWN
The user ID is of unknown validity. The string representation of this validity is ``?''.

@item GPGME_VALIDITY_UNDEFINED
The validity of the user ID is undefined. The string representation of this validity is ``q''.
@end table
@item GPGME_VALIDITY_NEVER
The user ID is never valid. The string representation of this validity is "$n$".

@item GPGME_VALIDITY_MARGINAL
The user ID is marginally valid. The string representation of this validity is "$m$".

@item GPGME_VALIDITY_FULL
The user ID is fully valid. The string representation of this validity is "$f$".

@item GPGME_VALIDITY_ULTIMATE
The user ID is ultimately valid. The string representation of this validity is "$u$".

@end table
@end deftp

@node Manipulating Keys
@subsection Manipulating Keys
@cindex key, manipulation

@deftypefun void gpgme_key_ref (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_ref} acquires an additional reference for the key @var{key}.
@end deftypefun

@deftypefun void gpgme_key_unref (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_unref} releases a reference for the key @var{key}. If this was the last reference, the key will be destroyed and all resources associated to it will be released.
@end deftypefun

@node Generating Keys
@subsection Generating Keys
@cindex key, creation
@cindex key ring, add

GPGME provides a set of functions to create public key pairs. Most of these functions require the use of GnuPG 2.1 and later; for older GnuPG versions the @code{gpgme_op_genkey} function can be used. Existing code which wants to update to the new functions or new code which shall supports older GnuPG versions may try the new functions
first and provide a fallback to the old function if the error code
@code{GPG_ERR_NOT_SUPPORTED} is received.

@c
@c  gpgme_op_createkey
@c
@deftypefun gpgme_error_t gpgme_op_createkey (@w{gpgme_ctx_t @var{ctx}},
@w{const char *@var{userid}},
@w{const char *@var{algo}},
@w{unsigned long @var{reserved}},
@w{unsigned long @var{expires}},
@w{gpgme_key_t @var{extrakey}},
@w{unsigned int @var{flags}});

@since{1.7.0}

The function @code{gpgme_op_createkey} generates a new key for the
protocol active in the context @var{ctx}. As of now this function
does only work for OpenPGP and requires at least version 2.1.13 of
GnuPG.

@var{userid} is commonly the mail address associated with the key.
GPGME does not require a specific syntax but if more than a mail
address is given, RFC-822 style format is suggested. The value is
expected to be in UTF-8 encoding (i.e. no IDN encoding for mail
addresses). This is a required parameter.

@var{algo} specifies the algorithm for the new key (actually a keypair
of public and private key). For a list of supported algorithms, see
the GnuPG manual. If @var{algo} is @code{NULL} or the string
"default", the key is generated using the default algorithm of the
engine. If the string "future-default" is used the engine may use an
algorithm which is planned to be the default in a future release of
the engine; however existing implementation of the protocol may not be
able to already handle such future algorithms. For the OpenPGP
protocol, the specification of a default algorithm, without requesting
a non-default usage via @var{flags}, triggers the creation of a
primary key plus a secondary key (subkey).

@var{reserved} must be set to zero.

@var{expires} specifies the expiration time in seconds. If you supply
0, a reasonable expiration time is chosen. Use the flag
@code{GPGME_CREATE_NOEXPIRE} to create keys that do not expire. Note
that this parameter takes an unsigned long value and not a
@code{time_t} to avoid problems on systems which use a signed 32 bit
@code{time_t}. Note further that the OpenPGP protocol uses 32 bit
values for timestamps and thus can only encode dates up to the year 2106.

@var{extrakey} is currently not used and must be set to @code{NULL}. A future version of GPGME may use this parameter to create X.509 keys.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_CREATE_SIGN
@itemx GPGME_CREATE_ENCR
@itemx GPGME_CREATE_CERT
@itemx GPGME_CREATE_AUTH
@since{1.7.0}

Do not create the key with the default capabilities (key usage) of the requested algorithm but use those explicitly given by these flags: `signing`, `encryption`, `certification`, or `authentication`. The allowed combinations depend on the algorithm.

If any of these flags are set and a default algorithm has been selected only one key is created in the case of the OpenPGP protocol.

@item GPGME_CREATE_NOPASSWD
@since{1.7.0}

Request generation of the key without password protection.

@item GPGME_CREATE_SELFSSIGNED
@since{1.7.0}

For an X.509 key do not create a CSR but a self-signed certificate. This has not yet been implemented.

@item GPGME_CREATE_NOSTORE
@since{1.7.0}

Do not store the created key in the local key database. This has not yet been implemented.

@item GPGME_CREATE_WANTPUB
@itemx GPGME_CREATE_WANTSEC
@since{1.7.0}

Return the public or secret key as part of the result structure. This has not yet been implemented.
The engine does not allow the creation of a key with a user ID already existing in the local key database. This flag can be used to override this check.

Request generation of keys that do not expire.

After the operation completed successfully, information about the created key can be retrieved with \texttt{gpgme_op_genkey_result}.

The function returns zero on success, \texttt{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

The function \texttt{gpgme_op_createkey_start} initiates a \texttt{gpgme_op_createkey} operation; see there for details. It must be completed by calling \texttt{gpgme_wait} on the context.

The function \texttt{gpgme_op_createsubkey} initiates a \texttt{gpgme_op_createsubkey} operation; see there for details. It must be completed by calling \texttt{gpgme_wait} on the context.
The function `gpgme_op_createsubkey` creates and adds a new subkey to the primary OpenPGP key given by `@var{KEY}`). The only allowed protocol in `@var{ctx}` is `GPGME_PROTOCOL_OPENPGP`. Subkeys (aka secondary keys) are a concept in the OpenPGP protocol to bind several keys to a primary key. As of now this function requires at least version 2.1.13 of GnuPG.

`@var{key}` specifies the key to operate on.

`@var{algo}` specifies the algorithm for the new subkey. For a list of supported algorithms, see the GnuPG manual. If `@var{algo}` is `NULL` or the string "default", the subkey is generated using the default algorithm for an encryption subkey of the engine. If the string "future-default" is used the engine may use an encryption algorithm which is planned to be the default in a future release of the engine; however existing implementation of the protocol may not be able to already handle such future algorithms.

`@var{reserved}` must be set to zero.

`@var{expires}` specifies the expiration time in seconds. If you supply 0, a reasonable expiration time is chosen. Use the flag `GPGME_CREATE_NOEXPIRE` to create keys that do not expire. Note that this parameter takes an unsigned long value and not a `time_t` to avoid problems on systems which use a signed 32 bit values for timestamps and thus can only encode dates up to the year 2106.

`@var{flags}` takes the same values as described above for `gpgme_op_createkey`.

After the operation completed successfully, information about the created key can be retrieved with `gpgme_op_genkey_result`.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if the engine does not support the command, or a bunch of other error codes.
The function `gpgme_op_createsubkey_start` initiates a `gpgme_op_createsubkey` operation; see there for details. It must be completed by calling `gpgme_wait` on the context. 

The function `gpgme_op_adduid` adds a new user ID to the OpenPGP key given by `key`. Adding additional user IDs after key creation is a feature of the OpenPGP protocol and thus the protocol for the context `ctx` must be set to OpenPGP. As of now this function requires at least version 2.1.13 of GnuPG.

The function returns zero on success, `GPG_ERR_NOT_SUPPORTED` if
the engine does not support the command, or a bunch of other error
codes.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_adduid_start @
   (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{key}}, @
   @w{const char *@var{userid}}, @
   @w{unsigned int @var{flags}});

@since{1.7.0}

The function @code{gpgme_op_adduid_start} initiates a
@code{gpgme_op_adduid} operation; see there for details. It must
be completed by calling @code{gpgme_wait} on the context.
@xref{Waiting For Completion}.

@end deftypefun

@c
@c gpgme_op_revuid
@c
@deftypefun gpgme_error_t gpgme_op_revuid @
   (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{key}}, @
   @w{const char *@var{userid}}, @
   @w{unsigned int @var{flags}});

@since{1.7.0}

The function @code{gpgme_op_revuid} revokes a user ID from the OpenPGP
key given by @var{KEY}. Revoking user IDs after key creation is a
feature of the OpenPGP protocol and thus the protocol for the context
@var{ctx} must be set to OpenPGP. As of now this function requires at
least version 2.1.13 of GnuPG.

@var{key} specifies the key to operate on.

@var{userid} is the user ID to be revoked from the key. The user ID
must be given verbatim because the engine does an exact and case
sensitive match. Thus the @code{uid} field from the user ID object
(@code{gpgme_user_id_t}) is to be used. This is a required parameter.

@var{flags} are currently not used and must be set to zero.

Note that the engine won't allow to revoke the last valid user ID. To
change a user ID is better to first add the new user ID, then revoke
the old one, and finally publish the key.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if
the engine does not support the command, or a bunch of other error
codes.

@end deftypefun

gpgme_error_t gpgme_op_revuid_start (@w{gpgme_ctx_t @var{ctx}}, @
@gpgme_key_t @var{key}}, @
{const char *@var{userid}}, @
{unsigned int @var{flags}});

@since{1.7.0}

The function @code{gpgme_op_revuid_start} initiates a
@code{gpgme_op_revuid} operation; see there for details. It must
be completed by calling @code{gpgme_wait} on the context.
@xref{Waiting For Completion}.

@end deftypefun

gpgme_error_t gpgme_op_set_uid_flag@

(gpgme_ctx_t @var{ctx}),@
{gpgme_key_t @var{key}}, @
{const char *@var{userid}}, @
{char * @var{name}}, @
{char * @var{value}});

@since{1.8.0}

The function @code{gpgme_op_set_uid_flag} is used to set flags on a
user ID from the OpenPGP key given by @var{KEY}. Setting flags on
user IDs after key creation is a feature of the OpenPGP protocol and
thus the protocol for the context @var{ctx} must be set to OpenPGP.

@var{key} specifies the key to operate on. This parameters is required.

@var{userid} is the user ID of the key to be manipulated. This user ID
must be given verbatim because the engine does an exact and case
sensitive match. Thus the @code{uid} field from the user ID object
(@code{gpgme_user_id_t}) is to be used. This is a required parameter.
@var{name} names the flag which is to be changed. The only currently supported flag is:

@table @code
@item primary
This sets the primary key flag on the given user ID. All other primary key flag on other user IDs are removed. @var{value} must be given as NULL. For technical reasons this function bumps the creation timestamp of all affected self-signatures up by one second. At least GnuPG version 2.1.20 is required.
@end table
The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_set_uid_flag_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{const char *@var{userid}}, @w{cons char * @var{name}}, @w{cons char * @var{value}});
@since{1.8.0}
The function @code{gpgme_op_set_uid_flag_start} initiates a @code{gpgme_op_set_uid_flag} operation; see there for details. It must be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.
@end deftypefun
@1
@c
@c gpgme_op_genkey
@c
@deftypefun gpgme_error_t gpgme_op_genkey (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{parms}}, @w{gpgme_data_t @var{public}}, @w{gpgme_data_t @var{secret}})
The function @code{gpgme_op_genkey} generates a new key pair in the context @var{ctx}. The meaning of @var{public} and @var{secret} depends on the crypto backend.
GPG does not support @var{public} and @var{secret}, they should be @code{NULL}. GnuPG will generate a key pair and add it to the standard key ring. The fingerprint of the generated key is available with @code{gpgme_op_genkey_result}.

GpgSM requires @var{public} to be a writable data object. GpgSM will generate a secret key (which will be stored by @command{gpg-agent}), and return a certificate request in @var{public}, which then needs to be signed by the certification authority and imported before it can be used. GpgSM does not make the fingerprint available.

The argument @var{parms} specifies parameters for the key in an string that looks something like XML. The details about the format of @var{parms} are specific to the crypto engine used by @var{ctx}. The first line of the parameters must be @code{<GnupgKeyParams format="internal">} and the last line must be @code{</GnupgKeyParams>}. Every line in between the first and last lines is treated as a Header: Value pair. In particular, no XML escaping is necessary if you need to include the characters @code{<}, @code{>}, or @code{&}.

Here is an example for GnuPG as the crypto engine (all parameters of OpenPGP key generation are documented in the GPG manual):

@example
<GnupgKeyParms format="internal">
Key-Type: default
Subkey-Type: default
Name-Real: Joe Tester
Name-Comment: with stupid passphrase
Name-Email: joe@@foo.bar
Expire-Date: 0
Passphrase: abc
</GnupgKeyParms>
@end example

Here is an example for GpgSM as the crypto engine (all parameters of OpenPGP key generation are documented in the GPGSM manual):

@example
<GnupgKeyParms format="internal">
Key-Type: RSA
Key-Length: 1024
Name-DN: C=de,O=g10 code,OU=Testlab,CN=Joe 2 Tester
Name-Email: joe@@foo.bar
</GnupgKeyParms>
@end example
Strings should be given in UTF-8 encoding. The only format supported for now is "internal". The content of the @code{GnupgKeyParms} container is passed verbatim to the crypto backend. Control statements are not allowed.

After the operation completed successfully, the result can be retrieved with @code{gpgme_op_genkey_result}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, @code{GPG_ERR_INV_VALUE} if @var{parms} is not a well-formed string (e.g. does not have the expected tag-like headers and footers), @code{GPG_ERR_NOT_SUPPORTED} if @var{public} or @var{secret} is not valid, and @code{GPG_ERR_GENERAL} if no key was created by the backend.

@end deftypefun

@deftypefun {Data type} gpgme_genkey_result_t

This is a pointer to a structure used to store the result of a @code{gpgme_op_genkey} operation. After successfully generating a key, you can retrieve the pointer to the result with @code{gpgme_op_genkey_result}. The structure contains the following members:

@table @code
  @item unsigned int primary : 1
      This flag is set to 1 if a primary key was created and to 0 if not.
@end table

@end deftypefun
@item unsigned int sub : 1
This flag is set to 1 if a subkey was created and to 0 if not.

@item unsigned int uid : 1
This flag is set to 1 if a user ID was created and to 0 if not.

@item char *fpr
This is the fingerprint of the key that was created. If both a primary and a subkey were generated, the fingerprint of the primary key will be returned. If the crypto engine does not provide the fingerprint, @code{fpr} will be a null pointer.

@item gpgme_data_t pubkey
@since{1.7.0}
This will eventually be used to return the public key. It is currently not used.

@item gpgme_data_t seckey
@since{1.7.0}
This will eventually be used to return the secret key. It is currently not used.

@end table
@end deftp

@deftypefun gpgme_genkey_result_t gpgme_op_genkey_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_genkey_result} returns a @code{gpgme_genkey_result_t} pointer to a structure holding the result of a @code{gpgme_op_genkey} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_genkey} or @code{gpgme_op_genkey_start} operation, and if this operation finished successfully. The returned pointer is only valid until the next operation is started on the context.

@end deftypefun

@c
@c SIGNING KEYS
@c
@node Signing Keys
@subsection Signing Keys
@cindex key, signing

Key signatures are a unique concept of the OpenPGP protocol. They can
be used to certify the validity of a key and are used to create the
Web-of-Trust (WoT). Instead of using the \code{gpgme_op_interact}
function along with a finite state machine, GPGME provides a
convenient function to create key signatures when using modern GnuPG
versions.

\c
\c gpgme_op_keysign
\c
\deftypefun gpgme_error_t gpgme_op_keysign (@
  @w{gpgme_ctx_t @var{ctx}}, @
  @w{gpgme_key_t @var{key}}, @
  @w{const char *@var{userid}}, @
  @w{unsigned long @var{expires}}, @
  @w{unsigned int @var{flags}});
\since{1.7.0}

The function \code{gpgme_op_keysign} adds a new key signature to the
public key @var{KEY}. This function requires at least version 2.1.12 of
GnuPG.

@var{CTX} is the usual context which describes the protocol to use
(which must be OpenPGP) and has also the list of signer keys to be
used for the signature. The common case is to use the default key for
signing other keys. If another key or more than one key shall be used
for a key signature, \code{gpgme_signers_add} can be used.
@xref{Selecting Signers}.

@var{key} specifies the key to operate on.

@var{userid} selects the user ID or user IDs to be signed. If
@var{userid} is set to \code{NULL} all valid user IDs are signed. The
user ID must be given verbatim because the engine does an exact and
case sensitive match. Thus the \code{uid} field from the user ID
object (@code{gpgme_user_id_t}) is to be used. To select more than
one user ID put them all into one string separated by linefeeds
characters (@code{\n}) and set the flag \code{GPGME_KEYSIGN_LFSEP}.

@var{expires} specifies the expiration time of the new signature in
seconds. The common case is to use 0 to not set an expiration date.
However, if the configuration of the engine defines a default
expiration for key signatures, that is still used unless the flag
@code{GPGME_KEYSIGN_NOEXPIRE} is used. Note that this parameter takes
an unsigned long value and not a \code{time_t} to avoid problems on
systems which use a signed 32 bit \code{time_t}. Note further that
the OpenPGP protocol uses 32 bit values for timestamps and thus can
only encode dates up to the year 2106.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
@item GPGME_KEYSIGN_LOCAL
@since{1.7.0}

Instead of creating an exportable key signature, create a key
signature which is marked as non-exportable.

@item GPGME_KEYSIGN_LFSEP
@since{1.7.0}

Although linefeeds are uncommon in user IDs this flag is required to
explicitly declare that @var{userid} may contain several linefeed
separated user IDs.

@item GPGME_KEYSIGN_NOEXPIRE

Force the creation of a key signature without an expiration date. This
overrides @var{expire} and any local configuration of the engine.

@end table

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if
the engine does not support the command, or a bunch of other error
codes.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_keysign_start @
   (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{key}}, @
   @w{const char *@var{userid}}, @
   @w{unsigned long @var{expires}}, @
   @w{unsigned int @var{flags}});

@end deftypefun

The function @code{gpgme_op_keysign_start} initiates a
@code{gpgme_op_keysign} operation; see there for details. It must
be completed by calling @code{gpgme_wait} on the context.
@xref[Waiting For Completion].

@end deftypefun
Exporting keys means the same as running @command{gpg} with the command @option{--export}. However, a mode flag can be used to change the way the export works. The available mode flags are described below, they may be or-ed together.

@table @code
@item GPGME_EXPORT_MODE_EXTERN
If this bit is set, the output is send directly to the default keyserver. This is currently only allowed for OpenPGP keys. It is good practise to not send more than a few dozens key to a keyserver at one time. Using this flag requires that the @var{keydata} argument of the export function is set to @code{NULL}.

@item GPGME_EXPORT_MODE_MINIMAL
@since{1.3.1}
If this bit is set, the smallest possible key is exported. For OpenPGP keys it removes all signatures except for the latest self-signatures. For X.509 keys it has no effect.

@item GPGME_EXPORT_MODE_SECRET
@since{1.6.0}
Instead of exporting the public key, the secret key is exported. This may not be combined with @code{GPGME_EXPORT_MODE_EXTERN}. For X.509 keys the export format is PKCS#8.

@item GPGME_EXPORT_MODE_RAW
@since{1.6.0}
If this flag is used with @code{GPGME_EXPORT_MODE_SECRET} for an X.509 key the export format will be changed to PKCS#1. This flag may not be used with OpenPGP.

@item GPGME_EXPORT_MODE_PKCS12
@since{1.6.0}
If this flag is used with @code{GPGME_EXPORT_MODE_SECRET} for an X.509
key the export format will be changed to PKCS#12 which also includes the certificate. This flag may not be used with OpenPGP.

@item GPGME_EXPORT_MODE_NOUID
@since{1.12.0 - experimental}
Do not export user ids. Works only with certain gpg version.

@end table

@deftypefun gpgme_error_t gpgme_op_export (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export} extracts public keys and returns them in the data buffer @var{keydata}. The output format of the key data returned is determined by the @acronym{ASCII} armor attribute set for the context @var{ctx}, or, if that is not set, by the encoding specified for @var{keydata}.

If @var{pattern} is @code{NULL}, all available keys are returned. Otherwise, @var{pattern} contains an engine specific expression that is used to limit the list to all keys matching the pattern.

@var{mode} is usually 0; other values are described above.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export_start} initiates a @code{gpgme_op_export} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_ext (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}[]}), @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
The function @code{gpgme_op_export_ext} extracts public keys and returns them in the data buffer @var{keydata}. The output format of the key data returned is determined by the @acronym{ASCII} armor attribute set for the context @var{ctx}, or, if that is not set, by the encoding
specified for \texttt{keydata}.

If \texttt{pattern} or \texttt{*pattern} is \texttt{NULL}, all available keys are returned. Otherwise, \texttt{pattern} is a \texttt{NULL} terminated array of strings that are used to limit the list to all keys matching at least one of the patterns verbatim.

\texttt{mode} is usually 0; other values are described above.

The function returns the error code \texttt{GPG\_ERR\_NO\_ERROR} if the operation completed successfully, \texttt{GPG\_ERR\_INV\_VALUE} if \texttt{keydata} is not a valid empty data buffer, and passes through any errors that are reported by the crypto engine support routines.

@end deftypefun

@deftypefun gpgme\_error\_t gpgme\_op\_export\_ext\_start (\texttt{gpgme\_ctx\_t \var{ctx}}, \texttt{const char \*pattern[]}\,), \texttt{gpgme\_export\_mode\_t \var{mode}}, \texttt{gpgme\_data\_t \var{keydata}})

The function \texttt{gpgme\_op\_export\_ext\_start} initiates a \texttt{gpgme\_op\_export\_ext} operation. It can be completed by calling \texttt{gpgme\_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code \texttt{GPG\_ERR\_NO\_ERROR} if the operation could be started successfully, and \texttt{GPG\_ERR\_INV\_VALUE} if \texttt{keydata} is not a valid empty data buffer.

@end deftypefun

@deftypefun gpgme\_error\_t gpgme\_op\_export\_keys (\texttt{gpgme\_ctx\_t \var{ctx}}, \texttt{gpgme\_key\_t keys[]}\,), \texttt{gpgme\_export\_mode\_t \var{mode}}, \texttt{gpgme\_data\_t \var{keydata}})

@since{1.2.0}

The function \texttt{gpgme\_op\_export\_keys} extracts public keys and returns them in the data buffer \texttt{keydata}. The output format of the key data returned is determined by the \texttt{ASCII} armor attribute set for the context \texttt{ctx}, or, if that is not set, by the encoding specified for \texttt{keydata}.

The keys to export are taken form the \texttt{NULL} terminated array \texttt{keys}. Only keys of the currently selected protocol of \texttt{ctx} which do have a fingerprint set are considered for export. Other keys specified by the \texttt{keys} are ignored. In particular OpenPGP keys retrieved via an external key listing are not included.

\texttt{mode} is usually 0; other values are described above.

The function returns the error code \texttt{GPG\_ERR\_NO\_ERROR} if the operation completed successfully, \texttt{GPG\_ERR\_INV\_VALUE} if \texttt{keydata} is not a valid empty data buffer, \texttt{GPG\_ERR\_NO\_DATA}
if no useful keys are in @var{keys} and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_export_keys_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{keys}[]}, @w{gpgme_export_mode_t @var{mode}}, @w{gpgme_data_t @var{keydata}})
@since{1.2.0}

The function @code{gpgme_op_export_keys_start} initiates a @code{gpgme_op_export_ext} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid empty data buffer, @code{GPG_ERR_NO_DATA} if no useful keys are in @var{keys} and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@node Importing Keys
@subsection Importing Keys
@cindex key, import
@cindex key ring, import to

Importing keys means the same as running @command{gpg} with the command @option{--import}.

@deftypefun gpgme_error_t gpgme_op_import (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{keydata}})

The function @code{gpgme_op_import} adds the keys in the data buffer @var{keydata} to the key ring of the crypto engine used by @var{ctx}. The format of @var{keydata} can be @acronym{ASCII} armored, for example, but the details are specific to the crypto engine.

After the operation completed successfully, the result can be retrieved with @code{gpgme_op_import_result}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the import was completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid pointer, and @code{GPG_ERR_NO_DATA} if @var{keydata} is an empty data buffer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{keydata}})

The function @code{gpgme_op_import_start} initiates a...
@code{gpgme_op_import} operation. It can be completed by calling
@code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
import could be started successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx} or @var{keydata} is not a valid pointer, and
@code{GPG_ERR_NO_DATA} if @var{keydata} is an empty data buffer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_keys (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t *
@var{keys}})
@since{1.2.0}
The function @code{gpgme_op_import_keys} adds the keys described by
the @code{NULL} terminated array @var{keys} to the key ring of the
crypto engine used by @var{ctx}. It is used to actually import and
make keys permanent which have been retrieved from an external source
(i.e. using @code{GPGME_KEYLIST_MODE_EXTERN}) earlier. The external
keylisting must have been made with the same context configuration (in
particular the same home directory). @footnote{Thus it is a
replacement for the usual workaround of exporting and then importing a
key to make an X.509 key permanent.} Note that for OpenPGP this may
require another access to the keys server over the network.

Only keys of the currently selected protocol of @var{ctx} are
considered for import. Other keys specified by the @var{keys} are
ignored. As of now all considered keys must have been retrieved using
the same method, i.e. the used key listing mode must be identical.

After the operation completed successfully, the result can be
retrieved with @code{gpgme_op_import_result}.

To move keys from one home directory to another, export and import the
keydata using @code{gpgme_op_export} and @code{gpgme_op_import}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
import was completed successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx} is not a valid pointer, @code{GPG_ERR_CONFLICT} if the key
listing mode does not match, and @code{GPG_ERR_NO_DATA} if no keys are
considered for export.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_keys_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t *
@var{keys}})
@since{1.2.0}
The function @code{gpgme_op_import_keys_start} initiates a
@code{gpgme_op_import_keys} operation. It can be completed by calling
The function returns the error code @code{GPG_ERR_NO_ERROR} if the import was completed successfully, @code{GPG_ERR_INV_VALUE} if @var{keydata} is not a valid pointer, @code{GPG_ERR_CONFLICT} if the key listing mode does not match, and @code{GPG_ERR_NO_DATA} if no keys are considered for export.

@end deftypefun

@deftp {Data type} {gpgme_import_status_t}
This is a pointer to a structure used to store a part of the result of a @code{gpgme_op_import} operation. For each considered key one status is added that contains information about the result of the import. The structure contains the following members:

@table @code
@item gpgme_import_status_t next
This is a pointer to the next status structure in the linked list, or @code{NULL} if this is the last element.

@item char *fpr
This is the fingerprint of the key that was considered.

@item gpgme_error_t result
If the import was not successful, this is the error value that caused the import to fail. Otherwise the error code is @code{GPG_ERR_NO_ERROR}.

@item unsigned int status
This is a bit-wise OR of the following flags that give more information about what part of the key was imported. If the key was already known, this might be 0.

@table @code
@item GPGME_IMPORT_NEW
The key was new.

@item GPGME_IMPORT_UID
The key contained new user IDs.

@item GPGME_IMPORT_SIG
The key contained new signatures.

@item GPGME_IMPORT_SUBKEY
The key contained new sub keys.

@item GPGME_IMPORT_SECRET
The key contained a secret key.
This is a pointer to a structure used to store the result of a `gpgme_op_import` operation. After a successful import operation, you can retrieve the pointer to the result with `gpgme_op_import_result`. The structure contains the following members:

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>int considered</code></td>
<td>The total number of considered keys.</td>
</tr>
<tr>
<td><code>int no_user_id</code></td>
<td>The number of keys without user ID.</td>
</tr>
<tr>
<td><code>int imported</code></td>
<td>The total number of imported keys.</td>
</tr>
<tr>
<td><code>int imported_rsa</code></td>
<td>The number of imported RSA keys.</td>
</tr>
<tr>
<td><code>int unchanged</code></td>
<td>The number of unchanged keys.</td>
</tr>
<tr>
<td><code>int new_user_ids</code></td>
<td>The number of new user IDs.</td>
</tr>
<tr>
<td><code>int new_sub_keys</code></td>
<td>The number of new sub keys.</td>
</tr>
<tr>
<td><code>int new_signatures</code></td>
<td>The number of new signatures.</td>
</tr>
<tr>
<td><code>int new_revocations</code></td>
<td>The number of new revocations.</td>
</tr>
<tr>
<td><code>int secret_read</code></td>
<td>The total number of secret keys read.</td>
</tr>
<tr>
<td><code>int secret_imported</code></td>
<td>The number of imported secret keys.</td>
</tr>
<tr>
<td><code>int secret_unchanged</code></td>
<td>The number of unchanged secret keys.</td>
</tr>
</tbody>
</table>
The function @code{gpgme_op_delete_ext} deletes the key @var{key} from the key ring of the crypto engine used by @var{ctx}.

@var{flags} can be set to the bit-wise OR of the following flags:

@table @code
    @item GPGME_DELETE_ALLOW_SECRET
    @since{1.9.1}

If not set, only public keys are deleted. If set, secret keys are deleted as well, if that is supported.
If set, the user is not asked to confirm the deletion.
@end table

The function returns the error code @code{GPG_ERR_NO_ERROR} if the key was deleted successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer, @code{GPG_ERR_NO_PUBKEY} if @var{key} could not be found in the keyring, @code{GPG_ERR_AMBIGUOUS_NAME} if the key was not specified unambiguously, and @code{GPG_ERR_CONFLICT} if the secret key for @var{key} is available, but @var{allow_secret} is zero.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_delete_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{unsigned int @var{flags}})
@since{1.9.1}
The function @code{gpgme_op_delete_ext_start} initiates a @code{gpgme_op_delete} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

The following functions allow only to use one particular flag.

@deftypefun gpgme_error_t gpgme_op_delete (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{int @var{allow_secret}})
Similar to @code{gpgme_op_delete_ext}, but only the flag @code{GPGME_DELETE_ALLOW_SECRET} can be provided.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_delete_start (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}}, @w{int @var{allow_secret}})
Similar to @code{gpgme_op_delete_ext_start}, but only the flag @code{GPGME_DELETE_ALLOW_SECRET} can be provided.
@end deftypefun

@node Changing Passphrases
@subsection Changing Passphrases
@cindex passphrase, change
@deftypefun gpgme_error_t gpgme_op_passwd (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}})
@end deftypefun
The function `gpgme_op_passwd` changes the passphrase of the private key associated with `key`. The only allowed value for `flags` is `0`. The backend engine will usually popup a window to ask for the old and the new passphrase. Thus this function is not useful in a server application (where passphrases are not required anyway).

Note that old `gpg` engines (before version 2.0.15) do not support this command and will silently ignore it.

```
@deftypefun gpgme_error_t gpgme_op_passwd_start
  (@w{gpgme_ctx_t @var{ctx}},       @
   @w{const gpgme_key_t @var{key}}, @
   @w{unsigned int @var{flags}}))

@since{1.3.0}
```

The function `gpgme_op_passwd_start` initiates a `gpgme_op_passwd` operation. It can be completed by calling `gpgme_wait` on the context. [Waiting For Completion].

The function returns `0` if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.

```
@deftp {Data type} {enum gpgme_tofu_policy_t}
@since{1.7.0}
```

The OpenPGP engine features a Trust-On-First-Use (TOFU) key validation model. For resolving conflicts it is necessary to declare the policy for a key. See the GnuPG manual for details on the TOFU implementation.
The @code{gpgme_tofu_policy_t} type specifies the set of possible policy values that are supported by @acronym{GPGME}:

@table @code
@item GPGME_TOFU_POLICY_AUTO
Set the policy to "auto".
@item GPGME_TOFU_POLICY_GOOD
Set the policy to "good".
@item GPGME_TOFU_POLICY_BAD
Set the policy to "bad".
@item GPGME_TOFU_POLICY_ASK
Set the policy to "ask".
@item GPGME_TOFU_POLICY_UNKNOWN
Set the policy to "unknown".
@end table

To change the policy for a key the following functions can be used:

@deftypefun gpgme_error_t gpgme_op_tofu_policy (@w{gpgme_ctx_t @var{ctx}},       @
@w{const gpgme_key_t @var{key}}, @
@w{gpgme_tofu_policy_t @var{policy}})
@since{1.7.0}
The function @code{gpgme_op_tofu_policy} changes the TOFU policy of @var{key}. The valid values for @var{policy} are listed above. As of now this function does only work for OpenPGP and requires at least version 2.1.10 of GnuPG.

The function returns zero on success, @code{GPG_ERR_NOT_SUPPORTED} if the engine does not support the command, or a bunch of other error codes.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_tofu_policy_start (@w{gpgme_ctx_t @var{ctx}},       @
@w{const gpgme_key_t @var{key}}, @
@w{gpgme_tofu_policy_t @var{policy}})
@since{1.7.0}
The function @code{gpgme_op_tofu_policy_start} initiates a @code{gpgme_op_tofu_policy} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}. 

@end deftypefun
The function returns `@code{0}` if the operation was started successfully, and an error code if one of the arguments is not valid or the operation could not be started.

@end deftypefun

@node Advanced Key Editing
@subsection Advanced Key Editing
@cindex key, edit
@deftp {Data type} {gpgme_error_t (*gpgme_interact_cb_t) (@w{void *@var{handle}}, @w{const char *@var{status}}, @w{const char *@var{args}}, @w{int @var{fd}})}

@since{1.7.0}
@tindex gpgme_interact_cb_t

The @code{gpgme_interact_cb_t} type is the type of functions which @acronym{GPGME} calls if it a key interact operation is on-going. The status keyword @var{status} and the argument line @var{args} are passed through by @acronym{GPGME} from the crypto engine. An empty string represents EOF. The file descriptor @var{fd} is -1 for normal status messages. If @var{status} indicates a command rather than a status message, the response to the command should be written to @var{fd}. The @var{handle} is provided by the user at start of operation.

The function should return @code{GPG_ERR_FALSE} if it did not handle the status code, @code{0} for success, or any other error value.
@end deftp

@deftypefun gpgme_error_t gpgme_op_interact (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{unsigned int @var{flags}}, @w{gpgme_interact_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})

@since{1.7.0}

The function @code{gpgme_op_interact} processes the key @var{KEY} interactively, using the interact callback function @var{FNC} with the handle @var{HANDLE}. The callback is invoked for every status and command request from the crypto engine. The output of the crypto
engine is written to the data object @var{out}.

Note that the protocol between the callback function and the crypto engine is specific to the crypto engine and no further support in implementing this protocol correctly is provided by @acronym{GPGME}.

@var{flags} modifies the behaviour of the function; the only defined bit value is:

@table @code
@item GPGME_INTERACT_CARD
@since{1.7.0}
@end table

This is used for smartcard based keys and uses gpgs @code{--card-edit} command.

@end table

The function returns @code{0} if the edit operation completes successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer, and any error returned by the crypto engine or the edit callback handler.
@end deftypefun

@end deftypefun

The function @code{gpgme_op_interact_start} initiates a @code{gpgme_op_interact} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns @code{0} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.
@end deftypefun

@node Trust Item Management
@section Trust Item Management
@cindex trust item
@strong{Caution:} The trust items interface is experimental.

@deftp {Data type} gpgme_trust_item_t
The @code{gpgme_trust_item_t} type is a pointer to a trust item object.
It has the following members:

@table @code
@item char *keyid
This is a string describing the key to which this trust items belongs.

@item int type
This is the type of the trust item. A value of 1 refers to a key, a value of 2 refers to a user ID.

@item int level
This is the trust level.

@item char *owner_trust
The owner trust if @code{type} is 1.

@item char *validity
The calculated validity.

@item char *name
The user name if @code{type} is 2.
@end table
@end deftp

@menu
* Listing Trust Items:: Browsing the list of available trust items.
* Manipulating Trust Items:: Operations on trust items.
@end menu

@node Listing Trust Items
@subsection Listing Trust Items
@cindex trust item list
@deftypefun gpgme_error_t gpgme_op_trustlist_start (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{pattern}}, @w{int @var{max_level}})
The function @code{gpgme_op_trustlist_start} initiates a trust item listing operation inside the context @var{ctx}. It sets everything up so that subsequent invocations of @code{gpgme_op_trustlist_next} return the trust items in the list.

The string @var{pattern} contains an engine specific expression that is used to limit the list to all trust items matching the pattern. It
can not be the empty string.

The argument @var{max_level} is currently ignored.

The context will be busy until either all trust items are received (and @code{gpgme_op_trustlist_next} returns @code{GPG_ERR_EOF}), or @code{gpgme_op_trustlist_end} is called to finish the operation.

The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_trustlist_next (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_trust_item_t *@var{r_item}})
    The function @code{gpgme_op_trustlist_next} returns the next trust item in the list created by a previous @code{gpgme_op_trustlist_start} operation in the context @var{ctx}. The trust item can be destroyed with @code{gpgme_trust_item_release}. @xref{Manipulating Trust Items}.

    This is the only way to get at @code{gpgme_trust_item_t} objects in @acronym{GPGME}.
    
    If the last trust item in the list has already been returned, @code{gpgme_op_trustlist_next} returns @code{GPG_ERR_EOF}.
    
    The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{r_item} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if there is not enough memory for the operation.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_trustlist_end (@w{gpgme_ctx_t @var{ctx}})
    The function @code{gpgme_op_trustlist_end} ends a pending trust list operation in the context @var{ctx}.
    
    The function returns the error code @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, and @code{GPG_ERR_ENOMEM} if at some time during the operation there was not enough memory available.
@end deftypefun

@node Manipulating Trust Items
@subsection Manipulating Trust Items
@cindex trust item, manipulation
@deftypefun void gpgme_trust_item_ref (@w{gpgme_trust_item_t @var{item}})
    The function @code{gpgme_trust_item_ref} acquires an additional reference for the trust item @var{item}.
The function `gpgme_trust_item_unref` releases a reference for the trust item `@var{item}`. If this was the last reference, the trust item will be destroyed and all resources associated to it will be released.

```
@end deftypefun
```

```
@end deftypefun void gpgme_trust_item_unref (@w{gpgme_trust_item_t @var{item}})
```

Sometimes, the result of a crypto operation returns a list of invalid keys encountered in processing the request. The following structure is used to hold information about such a key.

```
@deftp {Data type} {gpgme_invalid_key_t}
This is a pointer to a structure used to store a part of the result of a crypto operation which takes user IDs as one input parameter. The structure contains the following members:

@table @code
@item gpgme_invalid_key_t next
This is a pointer to the next invalid key structure in the linked list, or @code{NULL} if this is the last element.

@item char *fpr
The fingerprint or key ID of the invalid key encountered.

@item gpgme_error_t reason
An error code describing the reason why the key was found invalid.
@end table
@end deftp
```

```
@menu
* Decrypt:: Decrypting a ciphertext.
* Verify:: Verifying a signature.
* Decrypt and Verify:: Decrypting a signed ciphertext.
* Sign:: Creating a signature.
* Encrypt:: Encrypting a plaintext.
@end menu
```

```
@end node Decrypt
@end subsection Decrypt
```
@cindex decryption
@cindex cryptographic operation, decryption

@deftypefun gpgme_error_t gpgme_op_decrypt (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})

The function @code{gpgme_op_decrypt} decrypts the ciphertext in the data object @var{cipher} and stores it into the data object @var{plain}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the ciphertext could be decrypted successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{cipher} or @var{plain} is not a valid pointer, @code{GPG_ERR_NO_DATA} if @var{cipher} does not contain any data to decrypt, @code{GPG_ERR_DECRYPT_FAILED} if @var{cipher} is not a valid cipher text, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the secret key could not be retrieved, and passes through some errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})

The function @code{gpgme_op_decrypt_start} initiates a @code{gpgme_op_decrypt} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{cipher} or @var{plain} is not a valid pointer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_ext ( @w{gpgme_ctx_t @var{ctx}}, @w{gpgme_decrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})

@since{1.8.0}

The function @code{gpgme_op_decrypt_ext} is the same as @code{gpgme_op_decrypt} but has an additional argument @var{flags}. If @var{flags} is 0 both function behave identically.

The value in @var{flags} is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_DECRYPT_VERIFY
@end deftypefun
The @code{GPGME_DECRYPT_VERIFY} symbol specifies that this function shall exactly act as @code{gpgme_op_decrypt_verify}.

@item GPGME_DECRYPT_UNWRAP
@since{1.8.0}

The @code{GPGME_DECRYPT_UNWRAP} symbol specifies that the output shall be an OpenPGP message with only the encryption layer removed. This requires GnuPG 2.1.12 and works only for OpenPGP. This is the counterpart to @code{GPGME_ENCRYPT_WRAP}.

The function returns the error codes as described for @code{gpgme_op_decrypt} respective @code{gpgme_op_encrypt}.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_ext_start ( @
    @w{gpgme_ctx_t @var{ctx}}, @
    @w{gpgme_decrypt_flags_t @var{flags}}, @
    @w{gpgme_data_t @var{cipher}}, @
    @w{gpgme_data_t @var{plain}})

    @since{1.8.0}

The function @code{gpgme_op_decrypt_ext_start} initiates a @code{gpgme_op_decrypt_ext} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{cipher} or @var{plain} is not a valid pointer.

@end deftypefun

@deftyp {Data type} {gpgme_recipient_t}
@since{1.1.0}

This is a pointer to a structure used to store information about the recipient of an encrypted text which is decrypted in a @code{gpgme_op_decrypt} operation. This information (except for the status field) is even available before the operation finished successfully, for example in a passphrase callback. The structure contains the following members:

@table @code
@item gpgme_recipient_t next
This is a pointer to the next recipient structure in the linked list, or @code{NULL} if this is the last element.

@item gpgme_pubkey_algo_t
The public key algorithm used in the encryption.

@item char *keyid
This is the key ID of the key (in hexadecimal digits) used as recipient.

@item gpgme_error_t status
This is an error number with the error code GPG_ERR_NO_SECKEY if the secret key for this recipient is not available, and 0 otherwise.
@end table
@end deftp

@deftp {Data type} {gpgme_decrypt_result_t}
This is a pointer to a structure used to store the result of a @code{gpgme_op_decrypt} operation. After successfully decrypting data, you can retrieve the pointer to the result with @code{gpgme_op_decrypt_result}. As with all result structures, it this structure shall be considered read-only and an application must not allocate such a structure on its own. The structure contains the following members:

@table @code
@item char *unsupported_algorithm
If an unsupported algorithm was encountered, this string describes the algorithm that is not supported.

@item unsigned int wrong_key_usage : 1
@since{0.9.0}
This is true if the key was not used according to its policy.

@item unsigned int legacy_cipher_nomdc : 1
@since{1.11.2}
The message was made by a legacy algorithm without any integrity protection. This might be an old but legitimate message.

@item unsigned int is_mime : 1;
@since{1.11.0}
The message claims that the content is a MIME object.

@item unsigned int is_de_vs : 1;
@since{1.10.0}
The message was encrypted in a VS-NfD compliant way. This is a specification in Germany for a restricted communication level.
@item gpgme_recipient_t recipients
@since{1.1.0}

This is a linked list of recipients to which this message was encrypted.

@item char *file_name
This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer.

@item char *session_key
@since{1.8.0}

A textual representation (nul-terminated string) of the session key used in symmetric encryption of the message, if the context has been set to export session keys (see @code{gpgme_set_ctx_flag, "export-session-key"}), and a session key was available for the most recent decryption operation. Otherwise, this is a null pointer.

You must not try to access this member of the struct unless @code{gpgme_set_ctx_flag (ctx, "export-session-key")} returns success or @code{gpgme_get_ctx_flag (ctx, "export-session-key")} returns true (non-empty string).

@item char *symkey_algo
@since{1.11.0}

A string with the symmetric encryption algorithm and mode using the format "<algo>.<mode>". Note that the deprecated non-MDC encryption mode of OpenPGP is given as "PGPCFB".

@end table
@end deftp

@deftypefun gpgme_decrypt_result_t gpgme_op_decrypt_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_decrypt_result} returns a @code{gpgme_decrypt_result_t} pointer to a structure holding the result of a @code{gpgme_op_decrypt} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_decrypt} or @code{gpgme_op_decrypt_start} operation. If the operation failed this might be a @code{NULL} pointer. The returned pointer is only valid until the next operation is started on the context.
@end deftypefun

@node Verify
@subsection Verify
The function `gpgme_op_verify` verifies that the signature in the data object `@var{sig}` is a valid signature. If `@var{sig}` is a detached signature, then the signed text should be provided in `@var{signed_text}` and `@var{plain}` should be a null pointer. Otherwise, if `@var{sig}` is a normal (or cleartext) signature, `@var{signed_text}` should be a null pointer and `@var{plain}` should be a writable data object that will contain the plaintext after successful verification.

The results of the individual signature verifications can be retrieved with `gpgme_op_verify_result`.

The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be completed successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{sig}` or `@var{plain}` is not a valid pointer, `GPG_ERR_NO_DATA` if `@var{sig}` does not contain any data to verify, and passes through any errors that are reported by the crypto engine support routines.

The function `gpgme_op_verify_start` initiates a `gpgme_op_verify` operation. It can be completed by calling `gpgme_wait` on the context. The function returns the error code `GPG_ERR_NO_ERROR` if the operation could be started successfully, `GPG_ERR_INV_VALUE` if `@var{ctx}`, `@var{sig}` or `@var{plain}` is not a valid pointer, and `GPG_ERR_NO_DATA` if `@var{sig}` or `@var{plain}` does not contain any data to verify.

This is a pointer to a structure used to store a part of the result of a `gpgme_op_verify` operation. The structure contains the following members:

```c
typedef struct gpgme_sig_notation_t {
    
} gpgme_sig_notation_t;
```
@item gpgme_sig_notation_t next
This is a pointer to the next new signature notation structure in the
linked list, or @code{NULL} if this is the last element.

@item char *name
The name of the notation field. If this is @code{NULL}, then the
member @code{value} will contain a policy URL.

@item int name_len
The length of the @code{name} field. For strings the length is
counted without the trailing binary zero.

@item char *value
The value of the notation field. If @code{name} is @code{NULL}, then
this is a policy URL.

@item int value_len
The length of the @code{value} field. For strings the length is
counted without the trailing binary zero.

@item gpgme_sig_notation_flags_t flags
The accumulated flags field. This field contains the flags associated
with the notation data in an accumulated form which can be used as an
argument to the function @code{gpgme_sig_notation_add}. The value
@code{flags} is a bitwise-or combination of one or multiple of the
following bit values:

@table @code
@item GPGME_SIG_NOTATION_HUMAN_READABLE
@since{1.1.0}
The @code{GPGME_SIG_NOTATION_HUMAN_READABLE} symbol specifies that the
notation data is in human readable form

@item GPGME_SIG_NOTATION_CRITICAL
@since{1.1.0}
The @code{GPGME_SIG_NOTATION_CRITICAL} symbol specifies that the
notation data is critical.
@end table

@item unsigned int human_readable : 1
This is true if the @code{GPGME_SIG_NOTATION_HUMAN_READABLE} flag is
set and false otherwise. This flag is only valid for notation data,
not for policy URLs.

@item unsigned int critical : 1
This is true if the `GPGME_SIG_NOTATION_CRITICAL` flag is set and false otherwise. This flag is valid for notation data and policy URLs.

@end table
@end deftp

@deftp {Data type} {gpgme_signature_t}
This is a pointer to a structure used to store a part of the result of a `gpgme_op_verify` operation. The structure contains the following members:

@table @code
  @item gpgme_signature_t next
  This is a pointer to the next new signature structure in the linked list, or `{NULL}` if this is the last element.
  
  @item gpgme_sigsum_t summary
  This is a bit vector giving a summary of the signature status. It provides an easy interface to a defined semantic of the signature status. Checking just one bit is sufficient to see whether a signature is valid without any restrictions. This means that you can check for `GPGME_SIGSUM_VALID` like this:
  
  @example
  if ((sig.summary & GPGME_SIGSUM_VALID))
    @{
      ..do stuff if valid..
    @}
  else
    @{
      ..do stuff if not fully valid..
    @}
  @end example

The defined bits are:
  @table @code
  @item GPGME_SIGSUM_VALID
  The signature is fully valid.
  
  @item GPGME_SIGSUM_GREEN
  The signature is good but one might want to display some extra information. Check the other bits.
  
  @item GPGME_SIGSUM_RED
  The signature is bad. It might be useful to check other bits and display more information, i.e. a revoked certificate might not render a signature invalid when the message was received prior to the cause for the revocation.
@item GPGME_SIGSUM_KEY_REVOKED
The key or at least one certificate has been revoked.

@item GPGME_SIGSUM_KEY_EXPIRED
The key or one of the certificates has expired. It is probably a good idea to display the date of the expiration.

@item GPGME_SIGSUM_SIG_EXPIRED
The signature has expired.

@item GPGME_SIGSUM_KEY_MISSING
Can't verify due to a missing key or certificate.

@item GPGME_SIGSUM_CRL_MISSING
The CRL (or an equivalent mechanism) is not available.

@item GPGME_SIGSUM_CRL_TOO_OLD
Available CRL is too old.

@item GPGME_SIGSUM_BAD_POLICY
A policy requirement was not met.

@item GPGME_SIGSUM_SYS_ERROR
A system error occurred.

@item GPGME_SIGSUM_TOFU_CONFLICT
A TOFU conflict was detected.
@end table

@item char *fpr
This is the fingerprint or key ID of the signature.

@item gpgme_error_t status
This is the status of the signature. In particular, the following status codes are of interest:

@table @code
@item GPG_ERR_NO_ERROR
This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.

@item GPG_ERR_SIG_EXPIRED
This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.

@item GPG_ERR_KEY_EXPIRED

This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.

@item GPG_ERR_CERT_REVOKED
This status indicates that the signature is valid but the key used to verify the signature has been revoked. For the combined result this status means that all signatures are valid and all keys are revoked.

@item GPG_ERR_BAD_SIGNATURE
This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.

@item GPG_ERR_NO_PUBKEY
This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.

@item GPG_ERR_GENERAL
This status indicates that there was some other error which prevented the signature verification.
@end table

@item gpgme_sig_notation_t notations
This is a linked list with the notation data and policy URLs.

@item unsigned long timestamp
The creation timestamp of this signature.

@item unsigned long exp_timestamp
The expiration timestamp of this signature, or 0 if the signature does not expire.

@item unsigned int wrong_key_usage : 1
This is true if the key was not used according to its policy.

@item unsigned int pka_trust : 2
This is set to the trust information gained by means of the PKA system.
Values are:
@table @code
@item 0
  No PKA information available or verification not possible.
@item 1
  PKA verification failed.
@item 2
  PKA verification succeeded.
@end table
Reserved for future use.
@end table
Depending on the configuration of the engine, this metric may also be reflected by the validity of the signature.

@item unsigned int chain_model : 1  
@since{1.1.6}

This is true if the validity of the signature has been checked using the chain model. In the chain model the time the signature has been created must be within the validity period of the certificate and the time the certificate itself has been created must be within the validity period of the issuing certificate. In contrast the default validation model checks the validity of signature as well at the entire certificate chain at the current time.

@item gpgme_validity_t validity  
The validity of the signature.

@item gpgme_error_t validity_reason  
If a signature is not valid, this provides a reason why.

@item gpgme_pubkey_algo_t  
The public key algorithm used to create this signature.

@item gpgme_hash_algo_t  
The hash algorithm used to create this signature.

@item char *pka_address  
The mailbox from the PKA information or @code{NULL}.

@item gpgme_key_t key  
@since{1.7.0}

An object describing the key used to create the signature. This key object may be incomplete in that it only conveys information available directly with a signature. It may also be @code{NULL} if such information is not readily available.

@end table
@end deftp

@deftp {Data type} {gpgme_verify_result_t}  
This is a pointer to a structure used to store the result of a @code{gpgme_op_verify} operation. After verifying a signature, you can retrieve the pointer to the result with @code{gpgme_op_verify_result}. If the operation failed this might be
a @code{NULL} pointer. The structure contains the following member:

<table>
  <tr><td>@item</td><td>@code{gpgme_signature_t signatures}</td></tr>
  <tr><td>A linked list with information about all signatures for which a verification was attempted.</td></tr>
  <tr><td>@item</td><td>@code{char *file_name}</td></tr>
  <tr><td>This is the filename of the original plaintext message file if it is known, otherwise this is a null pointer. Warning: The filename is not covered by the signature.</td></tr>
  <tr><td>@item</td><td>@code{unsigned int is_mime : 1;}</td></tr>
  <tr><td>@since{1.11.0}</td></tr>
</table>

The message claims that the content is a MIME object. Warning: This flag is not covered by the signature.

@end table
@end deftp

@deftypefun{gpgme_verify_result_t} gpgme_op_verify_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_verify_result} returns a @code{gpgme_verify_result_t} pointer to a structure holding the result of a @code{gpgme_op_verify} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_verify}, @code{gpgme_op_verify_start}, @code{gpgme_op_decrypt_verify} or @code{gpgme_op_decrypt_verify_start} operation, and if this operation finished successfully (for @code{gpgme_op_decrypt_verify} and @code{gpgme_op_decrypt_verify_start}, the error code @code{GPG_ERR_NO_DATA} counts as successful in this context). The returned pointer is only valid until the next operation is started on the context.
@end deftpfun

@node Decrypt and Verify
@subsection Decrypt and Verify
@cindex decryption and verification
@cindex verification and decryption
@cindex signature check
@cindex cryptographic operation, decryption and verification

@deftypefun{gpgme_error_t} gpgme_op_decrypt_verify (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_decrypt_verify} decrypts the ciphertext in the data object @var{cipher} and stores it into the data object @var{plain}. If @var{cipher} contains signatures, they will be
After the operation completed, @code{gpgme_op_decrypt_result} and
@code{gpgme_op_verify_result} can be used to retrieve more information
about the signatures.

If the error code @code{GPG_ERR_NO_DATA} is returned, @var{cipher}
does not contain any data to decrypt. However, it might still be
signed. The information about detected signatures is available with
@code{gpgme_op_verify_result} in this case.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
ciphertext could be decrypted successfully, @code{GPG_ERR_INV_VALUE}
if @var{ctx}, @var{cipher} or @var{plain} is not a valid pointer,
@code{GPG_ERR_NO_DATA} if @var{cipher} does not contain any data to
decrypt, @code{GPG_ERR_DECRYPT_FAILED} if @var{cipher} is not a valid
cipher text, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the
secret key could not be retrieved, and passes through any errors that
are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_decrypt_verify_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{cipher}}, @w{gpgme_data_t @var{plain}})
The function @code{gpgme_op_decrypt_verify_start} initiates a
@code{gpgme_op_decrypt_verify} operation. It can be completed by
calling @code{gpgme_wait} on the context. @xref{Waiting For
Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
operation could be started successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx}, @var{cipher}, @var{plain} or @var{r_stat} is not a valid
pointer, and @code{GPG_ERR_NO_DATA} if @var{cipher} does not contain
any data to decrypt.
@end deftypefun

When processing mails it is sometimes useful to extract the actual
mail address (the ``addr-spec'') from a string. GPGME provides this
helper function which uses the same semantics as the internal
functions in GPGME and GnuPG:

@deftypefun @w{char *} gpgme_addrspec_from_uid (@w{const char *@var{uid}})
Return the mail address (called ``addr-spec'' in RFC-5322) from the
string @var{uid} which is assumed to be a user id (called ``address''
in RFC-5322). All plain ASCII characters (i.e. those with bit 7
cleared) in the result are converted to lowercase. Caller must free
the result using \texttt{gpgme_free}. Returns \texttt{NULL} if no valid address was found (in which case \texttt{ERRNO} is set to \texttt{EINVAL}) or for other errors.

@end deftypefun

@node Sign
@subsection Sign
@cindex signature, creation
@cindex sign
@cindex cryptographic operation, signing

A signature can contain signatures by one or more keys. The set of keys used to create a signatures is contained in a context, and is applied to all following signing operations in this context (until the set is changed).

@menu
* Selecting Signers:: How to choose the keys to sign with.
* Creating a Signature:: How to create a signature.
* Signature Notation Data:: How to add notation data to a signature.
@end menu

@node Selecting Signers
@subsubsection Selecting Signers
@cindex signature, selecting signers
@cindex signers, selecting

The key or the keys used to create a signature are stored in the context. The following functions can be used to manipulate this list.
If no signer has been set into the context a default key is used for signing.

@deftypefun void gpgme_signers_clear (@w{gpgme_ctx_t @var{ctx}})
The function \texttt{gpgme_signers_clear} releases a reference for each key on the signers list and removes the list of signers from the context \texttt{@var{ctx}}.
Every context starts with an empty list.
@end deftypefun

@deftypefun gpgme_error_t gpgme_signers_add (@w{gpgme_ctx_t @var{ctx}}, @w{const gpgme_key_t @var{key}})
The function \texttt{gpgme_signers_add} adds the key \texttt{@var{key}} to the list of signers in the context \texttt{@var{ctx}}.
Calling this function acquires an additional reference for the key.
@end deftypefun

@end deftypefun @w{unsigned int} gpgme_signers_count (@w{const gpgme_ctx_t @var{ctx}})
@since{1.4.3}

The function @code{gpgme_signers_count} returns the number of signer keys in
the context @var{ctx}.
@end deftypefun

@end deftypefun gpgme_key_t gpgme_signers_enum (@w{const gpgme_ctx_t @var{ctx}}, @w{int @var{seq}})
The function @code{gpgme_signers_enum} returns the @var{seq}th key in
the list of signers in the context @var{ctx}. An additional reference
is acquired for the user.

If @var{seq} is out of range, @code{NULL} is returned.
@end deftypefun

@node Creating a Signature
@subsubsection Creating a Signature

@end deftp {Data type} {enum gpgme_sig_mode_t}
@end index gpgme_sig_mode_t
The @code{gpgme_sig_mode_t} type is used to specify the desired type of a
signature. The following modes are available:

@end table @code
@end item GPGME_SIG_MODE_NORMAL
A normal signature is made, the output includes the plaintext and the
signature.

@end item GPGME_SIG_MODE_DETACH
A detached signature is made.

@end item GPGME_SIG_MODE_CLEAR
A clear text signature is made. The @acronym{ASCII} armor and text
mode settings of the context are ignored.
@end index table
@end deftp

@end deftypefun gpgme_error_t gpgme_op_sign (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{plain}},
@w{gpgme_data_t @var{sig}}, @w{gpgme_sig_mode_t @var{mode}})
The function @code{gpgme_op_sign} creates a signature for the text in
the data object @var{plain} and returns it in the data object
@var{sig}. The type of the signature created is determined by the
@acronym{ASCII} armor (or, if that is not set, by the encoding
specified for @var{sig}), the text mode attributes set for the context
@var{ctx} and the requested signature mode @var{mode}.

After the operation completed successfully, the result can be retrieved with @code{gpgme_op_sign_result}.

If an S/MIME signed message is created using the CMS crypto engine, the number of certificates to include in the message can be specified with @code{gpgme_set_include_certs}. @xref{Included Certificates}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the signature could be created successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{plain} or @var{sig} is not a valid pointer, @code{GPG_ERR_NO_DATA} if the signature could not be created, @code{GPG_ERR_BAD_PASSPHRASE} if the passphrase for the secret key could not be retrieved, @code{GPG_ERR UNUASABLE_SECKEY} if there are invalid signers, and passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_sign_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{sig}}, @w{gpgme_sig_mode_t @var{mode}})

The function @code{gpgme_op_sign_start} initiates a @code{gpgme_op_sign} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{plain} or @var{sig} is not a valid pointer.
@end deftypefun

@deftyp {Data type} {gpgme_new_signature_t}
This is a pointer to a structure used to store a part of the result of a @code{gpgme_op_sign} operation. The structure contains the following members:

@table @code
@item gpgme_new_signature_t next
This is a pointer to the next new signature structure in the linked list, or @code{NULL} if this is the last element.

@item gpgme_sig_mode_t type
The type of this signature.

@item gpgme_pubkey_algo_t pubkey_algo
The public key algorithm used to create this signature.

@item gpgme_hash_algo_t hash_algo
The hash algorithm used to create this signature.
@end table
@item unsigned int sig_class
The signature class of this signature.

@item long int timestamp
The creation timestamp of this signature.

@item char *fpr
The fingerprint of the key which was used to create this signature.

@end table
@end deftp

@end deftp {Data type} {gpgme_sign_result_t}
This is a pointer to a structure used to store the result of a
@code{gpgme_op_sign} operation. After successfully generating a
signature, you can retrieve the pointer to the result with
@code{gpgme_op_sign_result}. The structure contains the following
members:

@table @code
@item gpgme_invalid_key_t invalid_signers
A linked list with information about all invalid keys for which a
signature could not be created.

@item gpgme_new_signature_t signatures
A linked list with information about all signatures created.
@end table
@end deftp

@end deftypefun gpgme_sign_result_t gpgme_op_sign_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_sign_result} returns a
@code{gpgme_sign_result_t} pointer to a structure holding the result
of a @code{gpgme_op_sign} operation. The pointer is only valid if the
last operation on the context was a @code{gpgme_op_sign},
@code{gpgme_op_sign_start}, @code{gpgme_op_encrypt_sign} or
@code{gpgme_op_encrypt_sign_start} operation. If that operation
failed, the function might return a @code{NULL} pointer. The returned
pointer is only valid until the next operation is started on the
context.
@end deftypefun

@node Signature Notation Data
@subsubsection Signature Notation Data
@cindex notation data
@cindex signature notation data
@cindex policy URL
Using the following functions, you can attach arbitrary notation data to a signature. This information is then available to the user when the signature is verified.

@deftypefun void gpgme_sig_notation_clear (@w{gpgme_ctx_t @var{ctx}})
@since{1.1.0}

The function @code{gpgme_sig_notation_clear} removes the notation data from the context @var{ctx}. Subsequent signing operations from this context will not include any notation data.

Every context starts with an empty notation data list.
@end deftypefun

@deftypefun gpgme_error_t gpgme_sig_notation_add (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{name}}, @w{const char *@var{value}}, @w{gpgme_sig_notation_flags_t @var{flags}})
@since{1.1.0}

The function @code{gpgme_sig_notation_add} adds the notation data with the name @var{name} and the value @var{value} to the context @var{ctx}.

Subsequent signing operations will include this notation data, as well as any other notation data that was added since the creation of the context or the last @code{gpgme_sig_notation_clear} operation.

The arguments @var{name} and @var{value} must be @code{NUL}-terminated strings in human-readable form. The flag @code{GPGME_SIG_NOTATION_HUMAN_READABLE} is implied (non-human-readable notation data is currently not supported). The strings must be in UTF-8 encoding.

If @var{name} is @code{NULL}, then @var{value} should be a policy URL.

The function @code{gpgme_sig_notation_add} returns the error code @code{GPG_ERR_NO_ERROR} if the notation data could be added successfully, @code{GPG_ERR_INV_VALUE} if @var{ctx} is not a valid pointer, or if @var{name}, @var{value} and @var{flags} are an invalid combination. The function also passes through any errors that are reported by the crypto engine support routines.
@end deftypefun

@deftypefun gpgme_sig_notation_t gpgme_sig_notation_get (@w{const gpgme_ctx_t @var{ctx}})
@since{1.1.0}

The function @code{gpgme_sig_notation_get} returns the linked list of notation data structures that are contained in the context @var{ctx}.
If @var{ctx} is not a valid pointer, or there is no notation data added for this context, @code{NULL} is returned.
@end deftypefun

@node Encrypt
@section Encrypt
@index encryption
@index cryptographic operation, encryption

One plaintext can be encrypted for several recipients at the same time. The list of recipients is created independently of any context, and then passed to the encryption operation.

@menu
* Encrypting a Plaintext:: How to encrypt a plaintext.
@end menu

@node Encrypting a Plaintext
@subsubsection Encrypting a Plaintext

@deftypefun gpgme_error_t gpgme_op_encrypt (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[]}[], @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})

The function @code{gpgme_op_encrypt} encrypts the plaintext in the data object @var{plain} for the recipients @var{recp} and stores the ciphertext in the data object @var{cipher}. The type of the ciphertext created is determined by the @acronym{ASCII} armor (or, if that is not set, by the encoding specified for @var{cipher}) and the text mode attributes set for the context @var{ctx}.

@var{recp} must be a @code{NULL}-terminated array of keys. The user must keep references for all keys during the whole duration of the call (but see @code{gpgme_op_encrypt_start} for the requirements with the asynchronous variant).

The value in @var{flags} is a bitwise-or combination of one or multiple of the following bit values:

@table @code
@item GPGME_ENCRYPT_ALWAYS_TRUST
The @code{GPGME_ENCRYPT_ALWAYS_TRUST} symbol specifies that all the recipients in @var{recp} should be trusted, even if the keys do not have a high enough validity in the keyring. This flag should be used with care; in general it is not a good idea to use any untrusted keys.

@item GPGME_ENCRYPT_NO_ENCRYPT_TO
The @code{GPGME_ENCRYPT_NO_ENCRYPT_TO} symbol specifies that no default or hidden default recipients as configured in the crypto backend should be included. This can be useful for managing different user profiles.

@item GPGME_ENCRYPT_NO_COMPRESS
@since{1.5.0}

The @code{GPGME_ENCRYPT_NO_COMPRESS} symbol specifies that the plaintext shall not be compressed before it is encrypted. This is in some cases useful if the length of the encrypted message may reveal information about the plaintext.

@item GPGME_ENCRYPT_PREPARE
@itemx GPGME_ENCRYPT_EXPECT_SIGN
The @code{GPGME_ENCRYPT_PREPARE} symbol is used with the UI Server protocol to prepare an encryption (i.e. sending the @code{PREP_ENCRYPT} command). With the @code{GPGME_ENCRYPT_EXPECT_SIGN} symbol the UI Server is advised to also expect a sign command.

@item GPGME_ENCRYPT_SYMMETRIC
@since{1.7.0}

The @code{GPGME_ENCRYPT_SYMMETRIC} symbol specifies that the output should be additionally encrypted symmetrically even if recipients are provided. This feature is only supported for the OpenPGP crypto engine.

@item GPGME_ENCRYPT_THROW_KEYIDS
@since{1.8.0}

The @code{GPGME_ENCRYPT_THROW_KEYIDS} symbols requests that the identifiers for the decryption keys are not included in the ciphertext. On the receiving side, the use of this flag may slow down the decryption process because all available secret keys must be tried. This flag is only honored for OpenPGP encryption.

@item GPGME_ENCRYPT_WRAP
@since{1.8.0}

The @code{GPGME_ENCRYPT_WRAP} symbol specifies that the input is an OpenPGP message and not a plain data. This is the counterpart to @code{GPGME_DECRYPT_UNWRAP}.

@item GPGME_ENCRYPT_WANT_ADDRESS
The `GPGME_ENCRYPT_WANT_ADDRESS` symbol requests that all supplied keys or key specifications include a syntactically valid mail address. If this is not the case the operation is not even tried and the error code `GPG_ERR_INV_USER_ID` is returned. Only the address part of the key specification is conveyed to the backend. As of now the key must be specified using the `recpstring` argument of the extended encrypt functions. This feature is currently only supported for the OpenPGP crypto engine.

If `GPG_ERR_UNUSABLE_PUBKEY` is returned, some recipients in `recp` are invalid, but not all. In this case the plaintext might be encrypted for all valid recipients and returned in `cipher` (if this happens depends on the crypto engine). More information about the invalid recipients is available with `gpgme_op_encrypt_result`.

If `recp` is `NULL`, symmetric rather than public key encryption is performed. Symmetrically encrypted cipher text can be deciphered with `gpgme_op_decrypt`. Note that in this case the crypto backend needs to retrieve a passphrase from the user. Symmetric encryption is currently only supported for the OpenPGP crypto backend.

The function returns the error code `GPG_ERR_NO_ERROR` if the ciphertext could be created successfully, `GPG_ERR_INV_VALUE` if `ctx`, `recp`, `plain` or `cipher` is not a valid pointer, `GPG_ERR_UNUSABLE_PUBKEY` if `recp` contains some invalid recipients, `GPG_ERR_BAD_PASSPHRASE` if the passphrase for the symmetric key could not be retrieved, and passes through any errors that are reported by the crypto engine support routines.
operation could be started successfully, @code{GPG_ERR_INV_VALUE} if
@var{ctx}, @var{rset}, @var{plain} or @var{cipher} is not a valid
pointer, and @code{GPG_ERR_UNUSABLE_PUBKEY} if @var{rset} does not
contain any valid recipients.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_ext @
   (@w{gpgme_ctx_t @var{ctx}}, @
   @w{gpgme_key_t @var{recp}[][]}, @
   @w{const char *@var{recpstring}}, @
   @w{gpgme_encrypt_flags_t @var{flags}}, @
   @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})
@end deftypefun

@since{1.11.0}

This is an extended version of @code{gpgme_op_encrypt} with
@var{recpstring} as additional parameter. If @var{recp} is NULL and
@var{recpstring} is not NULL, the latter is expected to be a linefeed
delimited string with the set of key specifications. In contrast to
@var{recp} the keys are given directly as strings and there is no need
to first create key objects. Leading and trailing white space is
remove from each line in @var{recpstring}. The keys are then passed
verbatim to the backend engine.

For the OpenPGP backend several special keywords are supported to
modify the operation. These keywords are given instead of a key
specification. The currently supported keywords are:

@table @code
@item --hidden
@itemx --no-hidden
These keywords toggle between normal and hidden recipients for all
following key specifications. When a hidden recipient is requested
the gpg option @option{-R} (or @option{-F} in file mode) is used
instead of @option{-r} (@option{-f} in file mode).

@item --file
@itemx --no-file
These keywords toggle between regular and file mode for all following
key specification. In file mode the option @option{-f} or @option{-F}
is passed to gpg. At least GnuPG version 2.1.14 is required to handle
these options. The @code{GPGME_ENCRYPT_WANT_ADDRESS} flag is ignored
in file mode.

@item --
This keyword disables all keyword detection up to the end of the
string. All keywords are treated as verbatim arguments.
To create a `recpstring` it is often useful to employ a `strconcat` style function. For example this function creates a string to encrypt to two keys:

```c
char *
xbuild_recpstring (const char *key1, const char *key2)
{
    char *result = gpgrt_strconcat ("--\n", key1, "\n", key2, NULL);
    if (!result)
    @ { perror ("strconcat failed"); exit (2); @ }
    return result;
}
@end example
```

Note the use of the double dash here; unless you want to specify a keyword, it is a good idea to avoid any possible trouble with key specifications starting with a double dash. The used `strconcat` function is available in Libgpg-error 1.28 and later; Libgpg-error (aka Gpgrt) is a dependency of GPGME. The number of arguments to `gpgrt_strconcat` is limited to 47 but that should always be sufficient. In case a larger and non-fixed number of keys are to be supplied the following code can be used:

```c
char *
xbuild_long_recpstring (void)
{
    gpgrt_stream_t memfp;
    const char *s;
    void *result;

    memfp = gpgrt_fopenmem (0, "w+b");
    if (!memfp)
    @ { perror ("fopenmem failed"); exit (2); @ }
    gpgrt_fputs ("--", memfp);
    while ((s = get_next_keyspec ()))
    @ {
        gpgrt_fputc ('\n', memfp);
        gpgrt_fputs (s, memfp);
    @ }
    gpgrt_fputc (0, memfp);
    if (gpgrt_ferror (memfp))
    @ { perror ("writing to memstream failed"); exit (2); @ }
    if (gpgrt_fclose_snatch (memfp, &result, NULL))
    @ { perror ("fclose_snatch failed"); exit (2); @ }
```
In this example @code{get_next_keyspec} is expected to return the next key to be added to the string. Please take care: Encrypting to a large number of recipients is often questionable due to security reasons and also for the technicality that all keys are currently passed on the command line to @command{gpg} which has as a platform specific length limitation.

@end deftypefun

@deftp {Data type} {gpgme_encrypt_result_t}
This is a pointer to a structure used to store the result of a @code{gpgme_op_encrypt} operation. After successfully encrypting data, you can retrieve the pointer to the result with @code{gpgme_op_encrypt_result}. The structure contains the following members:

@table @code
@item gpgme_invalid_key_t invalid_recipients
A linked list with information about all invalid keys for which the data could not be encrypted.
@end table
@end deftp

@deftp@gpgme_encrypt_result_t gpgme_op_encrypt_result (@w{gpgme_ctx_t @var{ctx}})
The function @code{gpgme_op_encrypt_result} returns a
@code{gpgme_encrypt_result_t} pointer to a structure holding the result of a @code{gpgme_op_encrypt} operation. The pointer is only valid if the last operation on the context was a @code{gpgme_op_encrypt}, @code{gpgme_op_encrypt_start}, @code{gpgme_op_sign} or @code{gpgme_op_sign_start} operation. If this operation failed, this might be a @code{NULL} pointer. The returned pointer is only valid until the next operation is started on the context.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_sign (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[]}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})
The function @code{gpgme_op_encrypt_sign} does a combined encrypt and sign operation. It is used like @code{gpgme_op_encrypt}, but the ciphertext also contains signatures for the signers listed in @var{ctx}.

The combined encrypt and sign operation is currently only available for the OpenPGP crypto engine.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_sign_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[]}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})
The function @code{gpgme_op_encrypt_sign_start} initiates a @code{gpgme_op_encrypt_sign} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation could be started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx}, @var{rset}, @var{plain} or @var{cipher} is not a valid pointer.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_sign_ext @
  (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[]}, @w{const char *@var{recpstring}}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})
@end deftypefun

@since{1.11.0}

This is an extended version of @code{gpgme_op_encrypt_sign} with @var{recpstring} as additional parameter. If @var{recp} is NULL and
@var{recpstring} is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to @var{recp} the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_encrypt_sign_ext_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{recp}[[]]}, @w{const char *@var{recpstring}}, @w{gpgme_encrypt_flags_t @var{flags}}, @w{gpgme_data_t @var{plain}}, @w{gpgme_data_t @var{cipher}})

@since{1.11.0}

This is an extended version of @code{gpgme_op_encrypt_sign_start} with @var{recpstring} as additional parameter. If @var{recp} is NULL and @var{recpstring} is not NULL, the latter is expected to be a linefeed delimited string with the set of key specifications. In contrast to @var{recp} the keys are given directly as strings and there is no need to first create the key objects. The keys are passed verbatim to the backend engine.

@end deftypefun

@node Miscellaneous
@section Miscellaneous operations

Here are some support functions which are sometimes useful.

@menu
* Running other Programs:: Running other Programs
* Using the Assuan protocol:: Using the Assuan protocol
* Checking for updates:: How to check for software updates
@end menu

@node Running other Programs
@subsection Running other Programs

GPGME features an internal subsystem to run the actual backend engines. Along with data abstraction object this subsystem can be used to run arbitrary simple programs which even need not be related to cryptographic features. It may for example be used to run tools which are part of the GnuPG system but are not directly accessible
with the GPGME API.

```
@deftypefun gpgme_error_t gpgme_op_spawn
  (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{file}}, @
   @w{const char *@var{argv}[]}, @w{gpgme_data_t @var{datain}}, @
   @w{gpgme_data_t @var{dataout}}, @w{gpgme_data_t @var{dataerr}}, @
   @w{unsigned int @var{flags}})

@since{1.5.0}
```

The function @code{gpgme_op_spawn} runs the program @var{file} with
the arguments taken from the NULL terminated array @var{argv}.  If no
arguments are required @var{argv} may be given as @code{NULL}.  In the
latter case or if @code{argv[0]} is the empty string, GPGME uses the
basename of @var{file} for @code{argv[0]}.  The file descriptors
@code{stdin}, @code{stdout}, and @code{stderr} are connected to the
data objects @var{datain}, @var{dataout}, and @var{dataerr}.  If NULL
is passed for one of these data objects the corresponding file
descriptor is connected to @file{/dev/null}.

The value in @var{flags} is a bitwise-or combination of one or
multiple of the following bit values:

```
@table @code
@item GPGME_SPAWN_DETACHED
  @since{1.5.0}

Under Windows this flag inhibits the allocation of a new console for
the program.  This is useful for a GUI application which needs to call
a command line helper tool.

@item GPGME_SPAWN_ALLOW_SET_FG
  @since{1.5.0}

Under Windows this flag allows the called program to put itself into
the foreground.
@end table
@end deftypefun

```

```
@deftypefun gpgme_error_t gpgme_op_spawn_start
  (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{file}}, @
   @w{const char *@var{argv}[]}, @w{gpgme_data_t @var{datain}}, @
   @w{gpgme_data_t @var{dataout}}, @w{gpgme_data_t @var{dataerr}}, @
   @w{unsigned int @var{flags}})

@since{1.5.0}
```
This is the asynchronous variant of `gpgme_op_spawn`.
@end deftypefun

@node Using the Assuan protocol
@subsection Using the Assuan protocol

The Assuan protocol can be used to talk to arbitrary Assuan servers. By default it is connected to the GnuPG agent, but it may be connected to arbitrary servers by using `gpgme_ctx_set_engine_info`, passing the location of the servers socket as `file_name` argument, and an empty string as `home_dir` argument.

The Assuan protocol functions use three kinds of callbacks to transfer data:

@deftp {Data type} {gpgme_error_t (*gpgme_assuan_data_cb_t) @
  (@w{void *@var{opaque}}, @w{const void *@var{data}}, @
   @w{size_t @var{datalen}})}
@since{1.2.0}

This callback receives any data sent by the server. `opaque` is the pointer passed to `gpgme_op_assuan_transact_start`, `data` of length `datalen` refers to the data sent.
@end deftp

@deftp {Data type} {gpgme_error_t (*gpgme_assuan_inquire_cb_t) @
  (@w{void *@var{opaque}}, @w{const char *@var{name}}, @
   @w{const char *@var{args}}, @w{gpgme_data_t *@var{r_data}})}
@since{1.2.0}

This callback is used to provide additional data to the Assuan server. `opaque` is the pointer passed to `gpgme_op_assuan_transact_start`, `name` and `args` specify what kind of data the server requested, and `r_data` is used to return the actual data.

Note: Returning data is currently not implemented in `GPGME`.
@end deftp

@deftp {Data type} {gpgme_error_t (*gpgme_assuan_status_cb_t) @
  (@w{void *@var{opaque}}, @w{const char *@var{status}}, @
   @w{const char *@var{args}})}
@since{1.2.0}
This callback receives any status lines sent by the server.  
@var{opaque} is the pointer passed to
@code{gpgme_op_assuan_transact_start}, @var{status} and @var{args}
denote the status update sent.
@end deftp

@deftypefun gpgme_error_t gpgme_op_assuan_transact_start @
  (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{command}}, @
   @w{gpgme_assuan_data_cb_t @var{data_cb}}, @
   @w{void * @var{data_cb_value}}, @
   @w{gpgme_assuan_inquire_cb_t @var{inquire_cb}}, @
   @w{void * @var{inquire_cb_value}}, @
   @w{gpgme_assuan_status_cb_t @var{status_cb}}, @
   @w{void * @var{status_cb_value}})
@end deftypefun

@since{1.2.0}

Send the Assuan @var{command} and return results via the callbacks.  
Any callback may be @code{NULL}.  The result of the operation may be
retrieved using @code{gpgme_wait_ext}.

Asynchronous variant.
@end deftpyefun

@deftypefun gpgme_error_t gpgme_op_assuan_transact_ext @
  (@w{gpgme_ctx_t @var{ctx}}, @w{const char *@var{command}}, @
   @w{gpgme_assuan_data_cb_t @var{data_cb}}, @
   @w{void * @var{data_cb_value}}, @
   @w{gpgme_assuan_inquire_cb_t @var{inquire_cb}}, @
   @w{void * @var{inquire_cb_value}}, @
   @w{gpgme_assuan_status_cb_t @var{status_cb}}, @
   @w{void * @var{status_cb_value}}, @
   @w{gpgme_error_t *@var{op_err}})
@end deftypefun

Send the Assuan @var{command} and return results via the callbacks.  
The result of the operation is returned in @var{op_err}.

Synchronous variant.
@end deftpyefun

@node Checking for updates
@subsection How to check for software updates

The GnuPG Project operates a server to query the current versions of
software packages related to GnuPG.  GPGME can be used to
access this online database and check whether a new version of a
software package is available.
This is a pointer to a structure used to store the result of a
@code{gpgme_op_query_swdb} operation. After successful call to that
function, you can retrieve the pointer to the result with
@code{gpgme_op_query_swdb_result}. The structure contains the
following members:

- **name**: This is the name of the package.
- **iversion**: The currently installed version or an empty string. This value is
either a copy of the argument given to @code{gpgme_op_query_swdb} or
the version of the installed software as figured out by GPGME or GnuPG.
- **created**: This gives the date the file with the list of version numbers has
originally been created by the GnuPG project.
- **retrieved**: This gives the date the file was downloaded.
- **warning**: If this flag is set either an error has occurred or some of the
information in this structure are not properly set. For example if
the version number of the installed software could not be figured out,
the @code{update} flag may not reflect a required update status.
- **update**: If this flag is set an update of the software is available.
- **urgent**: If this flag is set an available update is important.
- **noinfo**: If this flag is set, no valid information could be retrieved.
- **unknown**: If this flag is set the given @code{name} is not known.
- **tooold**: If this flag is set the available information is not fresh enough.
- **error**:
If this flag is set some other error has occurred.

@item version
The version string of the latest released version.

@item reldate
The release date of the latest released version.

@end table
@end deftp

@deftypefun gpgme_error_t gpgme_op_query_swdb @
  (@w{gpgme_ctx_t @var{ctx}},       @
   @w{const char *@var{name}},      @
   @w{const char *@var{iversion}},  @
   @w{gpgme_data_t @var{reserved}}))
@end deftypefun

@since{1.8.0}

Query the software version database for software package @var{name}
and check against the installed version given by @var{iversion}.  If
@var{iversion} is given as @code{NULL} a check is only done if GPGME
can figure out the version by itself (for example when using
"gpgme" or "gnupg"). If @code{NULL} is used for @var{name} the
current gpgme version is checked. @var{reserved} must be set to 0.

@end deftypefun

@deftypefun gpgme_query_swdb_result_t gpgme_op_query_swdb_result @
  (@w{gpgme_ctx_t @var{ctx}})
@end deftypefun

@since{1.8.0}

The function @code{gpgme_op_query_swdb_result} returns a
@code{gpgme_query_swdb_result_t} pointer to a structure holding the
result of a @code{gpgme_op_query_swdb} operation. The pointer is only
valid if the last operation on the context was a successful call to
@code{gpgme_op_query_swdb}. If that call failed, the result might
be a @code{NULL} pointer. The returned pointer is only valid until
the next operation is started on the context @var{ctx}.

@end deftypefun

@noindent
Here is an example on how to check whether GnuPG is current:

@example
#include <gpgme.h>


int
main (void)
{@
gpg_error_t err;
gpgme_ctx_t ctx;
gpgme_query_swdb_result_t result;

gpgme_check_version (NULL);
err = gpgme_new (&ctx);
if (err)
fprintf (stderr, "error creating context: %s\n", gpg_strerror (err));
else
    @{
    gpgme_set_protocol (ctx, GPGME_PROTOCOL_GPGCONF);
    
    err = gpgme_op_query_swdb (ctx, "gnupg", NULL, 0);
    if (err)
        fprintf (stderr, "error querying swdb: %s\n", gpg_strerror (err));
    else
        @{
        result = gpgme_op_query_swdb_result (ctx);
        if (!result)
            fprintf (stderr, "error querying swdb\n");
        if (!result->warning && !result->update)
            printf ("GnuPG version %s is current\n", result->iversion);
        else if (!result->warning && result->update)
            printf ("GnuPG version %s can be updated to %s\n", result->iversion, result->version);
        else
            fprintf (stderr, "error finding the update status\n");
        @ }
    gpgme_release (ctx);
    @} 
return 0;
@ }
@end example

@node Run Control
@section Run Control
@cindex run control
@cindex cryptographic operation, running

@acronym{GPGME} supports running operations synchronously and asynchronously. You can use asynchronous operation to set up a context up to initiating the desired operation, but delay performing it to a later point.
Furthermore, you can use an external event loop to control exactly when @acronym{GPGME} runs. This ensures that @acronym{GPGME} only runs when necessary and also prevents it from blocking for a long time.

@menu
* Waiting For Completion:: Waiting until an operation is completed.
* Using External Event Loops:: Advanced control over what happens when.
* Cancellation:: How to end pending operations prematurely.
@end menu

@node Waiting For Completion
@subsection Waiting For Completion
@cindex cryptographic operation, wait for
@cindex wait for completion
@deftypefun gpgme_ctx_t gpgme_wait (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_error_t *@var{status}},
@w{int @var{hang}})
The function @code{gpgme_wait} continues the pending operation within the context @var{ctx}. In particular, it ensures the data exchange between @acronym{GPGME} and the crypto backend and watches over the run time status of the backend process.

If @var{hang} is true, the function does not return until the operation is completed or cancelled. Otherwise the function will not block for a long time.

The error status of the finished operation is returned in @var{status} if @code{gpgme_wait} does not return @code{NULL}.

The @var{ctx} argument can be @code{NULL}. In that case, @code{gpgme_wait} waits for any context to complete its operation.

@code{gpgme_wait} can be used only in conjunction with any context that has a pending operation initiated with one of the @code{gpgme_op_*_start} functions except @code{gpgme_op_keylist_start} and @code{gpgme_op_trustlist_start} (for which you should use the corresponding @code{gpgme_op_*_next} functions). If @var{ctx} is @code{NULL}, all of such contexts are waited upon and possibly returned. Synchronous operations running in parallel, as well as key and trust item list operations, do not affect @code{gpgme_wait}.

In a multi-threaded environment, only one thread should ever call @code{gpgme_wait} at any time, regardless of whether @var{ctx} is specified or not. This means that all calls to this function should be fully synchronized by locking primitives. It is safe to start asynchronous
operations while a thread is running in `gpgme_wait`.

The function returns the `@var{ctx}` of the context which has finished
the operation. If `@var{hang}` is false, and the timeout expires,
`@code{NULL}` is returned and `@code{*status}` will be set to 0. If an
error occurs, `@code{NULL}` is returned and the error is returned in
`@code{*status}`.
@end deftypefun

@node Using External Event Loops
@subsection Using External Event Loops
@cindex event loop, external

@acronym{GPGME} hides the complexity of the communication between the
library and the crypto engine. The price of this convenience is that
the calling thread can block arbitrary long waiting for the data
returned by the crypto engine. In single-threaded programs, in
particular if they are interactive, this is an unwanted side-effect.
OTOH, if `@code{gpgme_wait}` is used without the `@var{hang}` option being
enabled, it might be called unnecessarily often, wasting CPU time that
could be used otherwise.

The I/O callback interface described in this section lets the user
take control over what happens when. @acronym{GPGME} will provide the
user with the file descriptors that should be monitored, and the
callback functions that should be invoked when a file descriptor is
ready for reading or writing. It is then the user's responsibility to
decide when to check the file descriptors and when to invoke the
callback functions. Usually this is done in an event loop, that also
checks for events in other parts of the program. If the callback
functions are only called when the file descriptors are ready,
@acronym{GPGME} will never block. This gives the user more control
over the program flow, and allows to perform other tasks when
@acronym{GPGME} would block otherwise.

By using this advanced mechanism, @acronym{GPGME} can be integrated
smoothly into GUI toolkits like GTK+ even for single-threaded
programs.

@menu
* I/O Callback Interface::        How I/O callbacks are registered.
* Registering I/O Callbacks::     How to use I/O callbacks for a context.
* I/O Callback Example::          An example how to use I/O callbacks.
* I/O Callback Example GTK+::     How to use @acronym{GPGME} with GTK+.
* I/O Callback Example GDK::      How to use @acronym{GPGME} with GDK.
* I/O Callback Example Qt::       How to use @acronym{GPGME} with Qt.
@end menu
@node I/O Callback Interface
@section I/O Callback Interface

@deftp {Data type} {gpgme_error_t (*gpgme_io_cb_t) (@w{void *@var{data}}, @w{int @var{fd}})}
@tindex gpgme_io_cb_t

The @code{gpgme_io_cb_t} type is the type of functions which @acronym{GPGME} wants to register as I/O callback handlers using the @code{gpgme_register_io_cb_t} functions provided by the user.

@var{data} and @var{fd} are provided by @acronym{GPGME} when the I/O callback handler is registered, and should be passed through to the handler when it is invoked by the user because it noticed activity on the file descriptor @var{fd}.

The callback handler always returns @code{0}, but you should consider the return value to be reserved for later use.
@end deftp

@deftp {Data type} {gpgme_error_t (*gpgme_register_io_cb_t) (@w{void *@var{data}}, @w{int @var{fd}}, @w{int @var{dir}}, @w{gpgme_io_cb_t @var{fnc}}, @w{void *@var{fnc_data}}, @w{void **@var{tag}})}
@tindex gpgme_register_io_cb_t

The @code{gpgme_register_io_cb_t} type is the type of functions which can be called by @acronym{GPGME} to register an I/O callback function @var{fnc} for the file descriptor @var{fd} with the user. @var{fnc_data} should be passed as the first argument to @var{fnc} when the handler is invoked (the second argument should be @var{fd}). If @var{dir} is 0, @var{fnc} should be called by the user when @var{fd} is ready for writing. If @var{dir} is 1, @var{fnc} should be called when @var{fd} is ready for reading.

@var{data} was provided by the user when registering the @code{gpgme_register_io_cb_t} function with @acronym{GPGME} and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the event loop to which the file descriptor should be added.

@acronym{GPGME} will call this function when a crypto operation is initiated in a context for which the user has registered I/O callback handler functions with @code{gpgme_set_io_cbs}. It can also call this function when it is in an I/O callback handler for a file descriptor associated to this context.

The user should return a unique handle in @var{tag} identifying this I/O callback registration, which will be passed to the @code{gpgme_register_io_cb_t} function without interpretation when the file descriptor should not be monitored anymore.
The `gpgme_remove_io_cb_t` type is the type of functions which can be called by `GPGME` to remove an I/O callback handler that was registered before. `tag` is the handle that was returned by the `gpgme_register_io_cb_t` for this I/O callback.

`GPGME` can call this function when a crypto operation is in an I/O callback. It will also call this function when the context is destroyed while an operation is pending.

The `gpgme_event_io_t` type specifies the type of an event that is reported to the user by `GPGME` as a consequence of an I/O operation. The following events are defined:

- **GPGME_EVENT_START**: The operation is fully initialized now, and you can start to run the registered I/O callback handlers now. Note that registered I/O callback handlers must not be run before this event is signalled. `type_data` is `NULL` and reserved for later use.
- **GPGME_EVENT_DONE**: The operation is finished, the last I/O callback for this operation was removed. The accompanying `type_data` points to a `struct gpgme_io_event_done_data` variable that contains the status of the operation that finished. This event is signalled after the last I/O callback has been removed.
- **GPGME_EVENT_NEXT_KEY**: In a `gpgme_op_keylist_start` operation, the next key was received from the crypto engine. The accompanying `type_data` is a `gpgme_key_t` variable that contains the key with one reference for the user.
- **GPGME_EVENT_NEXT_TRUSTITEM**: In a `gpgme_op_trustlist_start` operation, the next trust item was received from the crypto engine. The accompanying `type_data` is a `gpgme_trust_item_t` variable that contains the trust item with one reference for the user.
@var{type}}, @w{void *@var{type_data}})

The @code{gpgme_event_io_cb_t} type is the type of functions which can be called by @acronym{GPGME} to signal an event for an operation running in a context which has I/O callback functions registered by the user.

@var{data} was provided by the user when registering the @code{gpgme_event_io_cb_t} function with @acronym{GPGME} and will always be passed as the first argument when registering a callback function. For example, the user can use this to determine the context in which this event has occurred.

@var{type} will specify the type of event that has occurred. @var{type_data} specifies the event further, as described in the above list of possible @code{gpgme_event_io_t} types.

@acronym{GPGME} can call this function in an I/O callback handler.
@end deftp

@end deftp

@node Registering I/O Callbacks
@subsubsection Registering I/O Callbacks

deftp {Data type} {struct gpgme_io_cbs}
@tindex gpgme_event_io_t
This structure is used to store the I/O callback interface functions described in the previous section. It has the following members:

deftp @table @code
@item gpgme_register_io_cb_t add
This is the function called by @acronym{GPGME} to register an I/O callback handler. It must be specified.

@item void *add_priv
This is passed as the first argument to the @code{add} function when it is called by @acronym{GPGME}. For example, it can be used to determine the event loop to which the file descriptor should be added.

@item gpgme_remove_io_cb_t remove
This is the function called by @acronym{GPGME} to remove an I/O callback handler. It must be specified.

@item gpgme_event_io_cb_t event
This is the function called by @acronym{GPGME} to signal an event for an operation. It must be specified, because at least the start event must be processed.

@item void *event_priv
This is passed as the first argument to the @code{event} function when...
it is called by @acronym{GPGME}. For example, it can be used to determine the context in which the event has occurred.
@end table
@end deftp

@deftypefun void gpgme_set_io_cbs (@w{gpgme_ctx_t @var{ctx}}, @w{struct gpgme_io_cbs *@var{io_cbs}})
The function @code{gpgme_set_io_cbs} enables the I/O callback interface for the context @var{ctx}. The I/O callback functions are specified by @var{io_cbs}.

If @var{io_cbs}->@code{add} is @code{NULL}, the I/O callback interface is disabled for the context, and normal operation is restored.
@end deftypefun

@deftypefun void gpgme_get_io_cbs (@w{gpgme_ctx_t @var{ctx}}, @w{struct gpgme_io_cbs *@var{io_cbs}})
The function @code{gpgme_get_io_cbs} returns the I/O callback functions set with @code{gpgme_set_io_cbs} in @var{io_cbs}.
@end deftypefun

@node I/O Callback Example
@subsubsection I/O Callback Example

To actually use an external event loop, you have to implement the I/O callback functions that are used by @acronym{GPGME} to register and unregister file descriptors. Furthermore, you have to actually monitor these file descriptors for activity and call the appropriate I/O callbacks.

The following example illustrates how to do that. The example uses locking to show in which way the callbacks and the event loop can run concurrently. For the event loop, we use a fixed array. For a real-world implementation, you should use a dynamically sized structure because the number of file descriptors needed for a crypto operation in @acronym{GPGME} is not predictable.

@example
#include <assert.h>
#include <errno.h>
#include <stdlib.h>
#include <pthread.h>
#include <sys/types.h>
#include <gpgme.h>

/* The following structure holds the result of a crypto operation. */
struct op_result
{
  int done;
@end example
gpgme_error_t err;
@);

/* The following structure holds the data associated with one I/O callback. */
struct one_fd
@{
  int fd;
  int dir;
  gpgme_io_cb_t fnc;
  void *fnc_data;
  void *loop;
  @
};

struct event_loop
@{
  pthread_mutex_t lock;
#define MAX_FDS 32
/* Unused slots are marked with FD being -1. */
  struct one_fd fds[MAX_FDS];
  @
};
@end example

The following functions implement the I/O callback interface.

@example
gpgme_error_t
add_io_cb (void *data, int fd, int dir, gpgme_io_cb_t fnc, void *fnc_data,
  void **r_tag)
@{
  struct event_loop *loop = data;
  struct one_fd *fds = loop->fds;
  int i;

  pthread_mutex_lock (&loop->lock);
  for (i = 0; i < MAX_FDS; i++)
    @{
      if (fds[i].fd == -1)
        @{
          fds[i].fd = fd;
          fds[i].dir = dir;
          fds[i].fnc = fnc;
          fds[i].fnc_data = fnc_data;
          fds[i].loop = loop;
          break;
        }
    }
  pthread_mutex_unlock (&loop->lock);
if (i == MAX_FDS)
    return gpg_error (GPG_ERR_GENERAL);
*r_tag = &fds[i];
return 0;
}

void
remove_io_cb (void *tag)
@
{
    struct one_fd *fd = tag;
    struct event_loop *loop = fd->loop;

    pthread_mutex_lock (&loop->lock);
    fd->fd = -1;
    pthread_mutex_unlock (&loop->lock);
}

void
event_io_cb (void *data, gpgme_event_io_t type, void *type_data)
@
{
    struct op_result *result = data;

    /* We don't support list operations here. */
    if (type == GPGME_EVENT_DONE)
        @
        {
            result->done = 1;
            result->err = *type_data;
        }@
}@ example

The final missing piece is the event loop, which will be presented next. We only support waiting for the success of a single operation.

@example
int
do_select (struct event_loop *loop)
@
{
    fd_set rfds;
    fd_set wfds;
    int i, n;
    int any = 0;
    struct timeval tv;
    struct one_fd *fdlist = loop->fds;

    pthread_mutex_lock (&loop->lock);
    FD_ZERO (&loop->lock);
    FD_ZERO (&rfds);
    FD_ZERO (&wfds);
for (i = 0; i < MAX_FDS; i++)
    if (fdlist[i].fd != -1)
        FD_SET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds);
pthread_mutex_unlock (&loop->lock);

    tv.tv_sec = 0;
    tv.tv_usec = 1000;

    do
        @ {
            n = select (FD_SETSIZE, &rfds, &wfds, NULL, &tv);
        }
    while (n < 0 && errno == EINTR);

    if (n < 0)
        return n;/* Error or timeout. */

    pthread_mutex_lock (&loop->lock);
    for (i = 0; i < MAX_FDS & n; i++)
        @ {
            if (fdlist[i].fd != -1)

                @ {
                    if (FD_ISSET (fdlist[i].fd, fdlist[i].dir ? &rfds : &wfds))
                        @ {
                            assert (n);
                            n--;
                            any = 1;
                            /* The I/O callback handler can register/remove callbacks,
                             * so we have to unlock the file descriptor list. */
                            pthread_mutex_unlock (&loop->lock);
                            (*fdlist[i].fnc) (fdlist[i].fnc_data, fdlist[i].fd);
                            pthread_mutex_lock (&loop->lock);
                        }
                    @ }
                @ }
            @ }
        @ }
    pthread_mutex_unlock (&loop->lock);
    return any;
    @ }

void
wait_for_op (struct event_loop *loop, struct op_result *result)
    @ {
    int ret;

    do
        @ {
            ret = do_select (loop);
        }

while (ret >= 0 && !result->done);
}
@end example

The main function shows how to put it all together.

@example
int
main (int argc, char *argv[])
{@
  struct event_loop loop;
  struct op_result result;
  gpgme_ctx_t ctx;
  gpgme_error_t err;
  gpgme_data_t sig, text;
  int i;
  pthread_mutexattr_t attr;
  struct gpgme_io_cbs io_cbs =
  @{
    add_io_cb,
    &loop,
    remove_io_cb,
    event_io_cb,
    &result
  @};

  init_gpgme();

  /* Initialize the loop structure. */

  /* The mutex must be recursive, since remove_io_cb (which acquires a
   lock) can be called while holding a lock acquired in do_select. */
  pthread_mutexattr_init (&attr);
  pthread_mutexattr_settype (&attr, PTHREAD_MUTEX_RECURSIVE);
  pthread_mutex_init (&loop.lock, &attr);
  pthread_mutexattr_destroy (&attr);

  for (i = 0; i < MAX_FDS; i++)
    loop fds[i].fd = -1;

  /* Initialize the result structure. */
  result.done = 0;

  err = gpgme_data_new_from_file (&sig, "signature", 1);
  if (!err)
    err = gpgme_data_new_from_file (&text, "text", 1);
  if (!err)
    err = gpgme_new (&ctx);
if (!err)
  @{
    gpgme_set_io_cbs (ctx, &io_cbs);
    err = gpgme_op_verify_start (ctx, sig, text, NULL);
  @}
if (err)
  @{
    fprintf (stderr, "gpgme error: %s: %s\n",
              gpgme_strerror (err), gpgme_strerror (err));
    exit (1);
  @}

wait_for_op (&loop, &result);
if (!result.done)
  @{
    fprintf (stderr, "select error\n");
    exit (1);
  @}
if (!result.err)
  @{
    fprintf (stderr, "verification failed: %s: %s\n",
              gpgme_strerror (result.err), gpgme_strerror (result.err));
    exit (1);
  @}
/* Evaluate verify result. */
@dots[]
return 0;
@}
@end example

@node I/O Callback Example GTK+
@subsection I/O Callback Example GTK+
@cindex GTK+, using @acronym{GPGME} with

The I/O callback interface can be used to integrate @acronym{GPGME} with the GTK+ event loop. The following code snippets shows how this can be done using the appropriate register and remove I/O callback functions. In this example, the private data of the register I/O callback function is unused. The event notifications is missing because it does not require any GTK+ specific setup.

@example
#include <gtk/gtk.h>

struct my_gpgme_io_cb
@
{  
gpgme_io_cb_t fnc;
@end example
void *fnc_data;
guint input_handler_id
@);

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
@{
    struct my_gpgme_io_cb *iocb = data;
    (*(iocb->fnc)) (iocb->data, source);
@}

void
my_gpgme_remove_io_cb (void *data)
@{
    struct my_gpgme_io_cb *iocb = data;
    gtk_input_remove (data->input_handler_id);
@}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
void *fnc_data, void **tag)
@{
    struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
    iocb->fnc = fnc;
    iocb->data = fnc_data;
    iocb->input_handler_id = gtk_input_add_full (fd, dir
        ? GDK_INPUT_READ
        : GDK_INPUT_WRITE,
        my_gpgme_io_callback,
        0, iocb, NULL);

    *tag = iocb;
    return 0;
@}
@end example

@node I/O Callback Example GDK
@subsubsection I/O Callback Example GDK
@cindex GDK, using @acronym{GPGME} with

The I/O callback interface can also be used to integrate
@acronym{GPGME} with the GDK event loop. The following code snippets
shows how this can be done using the appropriate register and remove
I/O callback functions. In this example, the private data of the
register I/O callback function is unused. The event notifications is
missing because it does not require any GDK specific setup.

It is very similar to the GTK+ example in the previous section.
```c
#include <gdk/gdk.h>

struct my_gpgme_io_cb
{@
  gpgme_io_cb_t fnc;
  void *fnc_data;
  gint tag;
}@};

void
my_gpgme_io_cb (gpointer data, gint source, GdkInputCondition condition)
{@
  struct my_gpgme_io_cb *iocb = data;
  (*iocb->fnc) (iocb->data, source);
}@}

void
my_gpgme_remove_io_cb (void *data)
{@
  struct my_gpgme_io_cb *iocb = data;
  gdk_input_remove (data->tag);
}@}

void
my_gpgme_register_io_callback (void *data, int fd, int dir, gpgme_io_cb_t fnc,
                                 void *fnc_data, void **tag)
{@
  struct my_gpgme_io_cb *iocb = g_malloc (sizeof (struct my_gpgme_io_cb));
  iocb->fnc = fnc;
  iocb->data = fnc_data;
  iocb->tag = gtk_input_add_full (fd, dir ? GDK_INPUT_READ : GDK_INPUT_WRITE,
                                    my_gpgme_io_callback, iocb, NULL);
  *tag = iocb;
  return 0;
}@}
@end example

@node I/O Callback Example Qt
@subsubsection I/O Callback Example Qt
@cindex Qt, using @acronym{GPGME} with
The I/O callback interface can also be used to integrate
@acronym{GPGME} with the Qt event loop. The following code snippets
show how this can be done using the appropriate register and remove
I/O callback functions. In this example, the private data of the
register I/O callback function is unused. The event notifications is
missing because it does not require any Qt specific setup.

@example
#include <qsocketnotifier.h>
#include <qapplication.h>

struct IOCB @{
 IOCB( GpgmeIOCb f, void * d, QSocketNotifier * n )
   : func( f ), data( d ), notifier( n ) @{ @} 
GpgmeIOCb func;
void * data;
QSocketNotifier * notifier;
}@

class MyApp : public QApplication @{

  // ...

static void registerGpgmeIOCallback( void * data, int fd, int dir,
          GpgmeIOCb func, void * func_data,
          void ** tag ) @{
  QSocketNotifier * n =
      new QSocketNotifier( fd, dir ? QSocketNotifier::Read
          : QSocketNotifier::Write );
  connect( n, SIGNAL(activated(int)),
          qApp, SLOT(slotGpgmeIOCallback(int)) );
  qApp->mIOCBs.push_back( IOCB( func, func_data, n ) );
  *tag = (void*)n;
}@

static void removeGpgmeIOCallback( void * tag ) @{
if ( !tag ) return;
  QSocketNotifier * n = static_cast<QSocketNotifier*>( tag );
for ( QValueList<IOCB>::iterator it = qApp->mIOCBs.begin() ;
    it != qApp->mIOCBs.end() ; ++it )
  if ( it->notifier == n ) @{
    delete it->notifier;
    qApp->mIOCBs.erase( it );
    return;
  }@
}@

public slots:
void slotGpgmeIOCallback( int fd ) @{
for ( QValueList<IOCB>::const_iterator it = mIOCBs.begin() ;
    it != mIOCBs.end() ; ++it )
  if ( it->notifier && it->notifier->socket() == fd )
Sometimes you do not want to wait for an operation to finish. The acronym \texttt{GPGME} provides two different functions to achieve that. The function \texttt{gpgme_cancel} takes effect immediately. When it returns, the operation is effectively canceled. However, it has some limitations and cannot be used with synchronous operations. In contrast, the function \texttt{gpgme_cancel_async} can be used with any context and from any thread, but it is not guaranteed to take effect immediately. Instead, cancellation occurs at the next possible time (typically the next time I/O occurs in the target context).

The function \texttt{gpgme_cancel} attempts to cancel a pending operation in the context \texttt{@var{ctx}}. This only works if you use the global event loop or your own event loop.

If you use the global event loop, you must not call \texttt{gpgme_wait} during cancellation. After successful cancellation, you can call \texttt{gpgme_wait} (optionally waiting on \texttt{@var{ctx}}), and the context \texttt{@var{ctx}} will appear as if it had finished with the error code \texttt{GPG_ERR_CANCEL}.

If you use an external event loop, you must ensure that no I/O callbacks are invoked for this context (for example by halting the event loop). On successful cancellation, all registered I/O callbacks for this context will be unregistered, and a \texttt{GPGME_EVENT_DONE} event with the error code \texttt{GPG_ERR_CANCEL} will be signalled.
The function returns an error code if the cancellation failed (in this case the state of @var{ctx} is not modified).
@end deftypefun

@deftypefun gpgme_ctx_t gpgme_cancel_async (@w{gpgme_ctx_t @var{ctx}})
@since{1.1.7}

The function @code{gpgme_cancel_async} attempts to cancel a pending operation in the context @var{ctx}. This can be called by any thread at any time after starting an operation on the context, but will not take effect immediately. The actual cancellation happens at the next time GPGME processes I/O in that context.

The function returns an error code if the cancellation failed (in this case the state of @var{ctx} is not modified).
@end deftypefun

@c **********************************************************
c *******************  Appendices  *************************
c **********************************************************
@include uiserver.texi

@node Debugging
@appendix How to solve problems
@cindex debug
@cindex GPGME_DEBUG

Everyone knows that software often does not do what it should do and thus there is a need to track down problems. This is in particular true for applications using a complex library like @acronym{GPGME} and of course also for the library itself. Here we give a few hints on how to solve such problems.

First of all you should make sure that the keys you want to use are installed in the GnuPG engine and are usable. Thus the first test is to run the desired operation using @command{gpg} or @command{gpgsm} on the command line. If you can't figure out why things don't work, you may use @acronym{GPGME}'s built in trace feature. This feature is either enabled using the environment variable @code{GPGME_DEBUG} or, if this is not possible, by calling the function @code{gpgme_set_global_flag}. The value is the trace level and an optional file name. If no file name is given the trace output is printed to @code{stderr}.

@noindent
For example
(Note that under Windows you use a semicolon in place of the colon to separate the fields.)

A trace level of 9 is pretty verbose and thus you may want to start off with a lower level. The exact definition of the trace levels and the output format may change with any release; you need to check the source code for details. In any case the trace log should be helpful to understand what is going on. Warning: The trace log may reveal sensitive details like passphrases or other data you use in your application. If you are asked to send a log file, make sure that you run your tests only with play data.

For backward compatibility @acronym{GPGME} has a number of functions, data types and constants which are deprecated and should not be used anymore. We document here those which are really old to help understanding old code and to allow migration to their modern counterparts.

@strong{Warning:} These interfaces will be removed in a future version of @acronym{GPGME}.

@deftypefun void gpgme_key_release (@w{gpgme_key_t @var{key}})
The function @code{gpgme_key_release} is equivalent to @code{gpgme_key_unref}.
@end deftypefun

@deftypefun void gpgme_trust_item_release (@w{gpgme_trust_item_t @var{item}})
The function @code{gpgme_trust_item_release} is an alias for @code{gpgme_trust_item_unref}.
@end deftypefun

@deftypefun gpgme_error_t gpgme_op_import_ext (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_data_t @var{keydata}}, @w{int *@var{nr}})
The function @code{gpgme_op_import_ext} is equivalent to:
@end deftypefun

@example
@small{GPGME_DEBUG=9:/home/user/mygpgme.log}
@end small{GPGME_DEBUG=9:/home/user/mygpgme.log}
@end example
gpgme_error_t err = gpgme_op_import (ctx, keydata);
if (!err)
@
    @
gpgme_import_result_t result = gpgme_op_import_result (ctx);
    *nr = result->considered;
@}
@end example
@end deftypefun

@deftp {Data type} {gpgme_error_t (*gpgme_edit_cb_t) @
  (w{void *}@var{handle}), @
  @w{gpgme_status_code_t @var{status}}, @
  @w{const char *}@var{args}], @
  @w{int}@var{fd}})
@tindex gpgme_edit_cb_t
The @code{gpgme_edit_cb_t} type is the type of functions which
@acronym{GPGME} calls if it a key edit operation is on-going. The
status code @var{status} and the argument line @var{args} are passed
through by @acronym{GPGME} from the crypto engine. The file
descriptor @var{fd} is -1 for normal status messages. If @var{status}
indicates a command rather than a status message, the response to the
command should be written to @var{fd}. The @var{handle} is provided
by the user at start of operation.

The function should return @code{GPG_ERR_FALSE} if it did not handle
the status code, @code{0} for success, or any other error value.
@end deftp

@deftypefun gpgme_error_t gpgme_op_edit (@w{gpgme_ctx_t @var{ctx}},
  @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *}
  @var{handle}, @w{gpgme_data_t @var{out}})
@since{0.3.9}
Note: This function is deprecated, please use
@code{gpgme_op_interact} instead.

The function @code{gpgme_op_edit} processes the key @var{KEY}
interactively, using the edit callback function @var{FNC} with the
handle @var{HANDLE}. The callback is invoked for every status and
command request from the crypto engine. The output of the crypto
engine is written to the data object @var{out}.

Note that the protocol between the callback function and the crypto
engine is specific to the crypto engine and no further support in
implementing this protocol correctly is provided by @acronym{GPGME}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the
edit operation completes successfully, @code{GPG_ERR_INV_VALUE} if
@deftypefun gpgme_error_t gpgme_op_edit_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})

@since{0.3.9}

Note: This function is deprecated, please use @code{gpgme_op_interact_start} instead.

The function @code{gpgme_op_edit_start} initiates a @code{gpgme_op_edit} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_card_edit (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})

Note: This function is deprecated, please use @code{gpgme_op_interact} with the flag @code{GPGME_INTERACT_CARD} instead.

The function @code{gpgme_op_card_edit} is analogous to @code{gpgme_op_edit}, but should be used to process the smart card corresponding to the key @var{key}.

@end deftypefun

@deftypefun gpgme_error_t gpgme_op_card_edit_start (@w{gpgme_ctx_t @var{ctx}}, @w{gpgme_key_t @var{key}}, @w{gpgme_edit_cb_t @var{fnc}}, @w{void *@var{handle}}, @w{gpgme_data_t @var{out}})

Note: This function is deprecated, please use @code{gpgme_op_interact_start} with the flag @code{GPGME_INTERACT_CARD} instead.

The function @code{gpgme_op_card_edit_start} initiates a @code{gpgme_op_card_edit} operation. It can be completed by calling @code{gpgme_wait} on the context. @xref{Waiting For Completion}.

The function returns the error code @code{GPG_ERR_NO_ERROR} if the operation was started successfully, and @code{GPG_ERR_INV_VALUE} if @var{ctx} or @var{key} is not a valid pointer.

@end deftypefun

@deftypefun gpgme_error_t gpgme_data_new_with_read_cb (@w{gpgme_data_t *@var{dh}}, @w{int
The function `gpgme_data_new_with_read_cb` creates a new `gpgme_data_t` object and uses the callback function `readfunc` to retrieve the data on demand. As the callback function can supply the data in any way it wants, this is the most flexible data type `GPGME` provides. However, it can not be used to write data.

The callback function receives `hook_value` as its first argument whenever it is invoked. It should return up to `count` bytes in `buffer`, and return the number of bytes actually read in `nread`. It may return `0` in `nread` if no data is currently available. To indicate `EOF` the function should return with an error code of `-1` and set `nread` to `0`. The callback function may support to reset its internal read pointer if it is invoked with `buffer` and `nread` being `NULL` and `count` being `0`.

The function returns the error code `GPG_ERR_NO_ERROR` if the data object was successfully created, `GPG_ERR_INV_VALUE` if `dh` or `readfunc` is not a valid pointer, and `GPG_ERR_ENOMEM` if not enough memory is available.

The function `gpgme_data_rewind` is equivalent to:

```c
return (gpgme_data_seek (dh, 0, SEEK_SET) == -1)
? gpgme_error_from_errno (errno) : 0;
```

The function `gpgme_data_rewind` is equivalent to:

```c
example
return (gpgme_data_seek (dh, 0, SEEK_SET) == -1)
? gpgme_error_from_errno (errno) : 0;
@end example
@end deftypefun
```

The `gpgme_attr_t` type is used to specify a key or trust item attribute. The following attributes are defined:

```
@table @code
@item GPGME_ATTR_KEYID
This is the key ID of a sub key. It is representable as a string.

For trust items, the trust item refers to the key with this ID.

@item GPGME_ATTR_FPR
This is the fingerprint of a sub key. It is representable as a string.
```

@item GPGME_ATTR_ALGO
This is the crypto algorithm for which the sub key can be used. It is representable as a string and as a number. The numbers correspond to the @code{enum gcry_pk_algos} values in the gcrypt library.

@item GPGME_ATTR_LEN
This is the key length of a sub key. It is representable as a number.

@item GPGME_ATTR_CREATED
This is the timestamp at creation time of a sub key. It is representable as a number.

@item GPGME_ATTR_EXPIRE
This is the expiration time of a sub key. It is representable as a number.

@item GPGME_ATTR_OTRUST
XXX FIXME (also for trust items)

@item GPGME_ATTR_USERID
This is a user ID. There can be more than one user IDs in a @var{gpgme_key_t} object. The first one (with index 0) is the primary user ID. The user ID is representable as a number.

For trust items, this is the user ID associated with this trust item.

@item GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_VALIDITY
This is the validity belonging to a user ID. It is representable as a string and as a number. See below for a list of available validities.

For trust items, this is the validity that is associated with this trust item.

@item GPGME_ATTR_UID_REVOKED
This specifies if a user ID is revoked. It is representable as a number, and is @code{1} if the user ID is revoked, and @code{0}
@item GPGME_ATTR_UID_INVALID
This specifies if a user ID is invalid. It is representable as a number, and is @code{1} if the user ID is invalid, and @code{0} otherwise.

@item GPGME_ATTR_LEVEL
This is the trust level of a trust item.

@item GPGME_ATTR_TYPE
This returns information about the type of key. For the string function this will either be "PGP" or "X.509". The integer function returns 0 for PGP and 1 for X.509. It is also used for the type of a trust item.

@item GPGME_ATTR_IS_SECRET
This specifies if the key is a secret key. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_KEY_REVOKED
This specifies if a sub key is revoked. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@item GPGME_ATTR_KEY_INVALID
This specifies if a sub key is invalid. It is representable as a number, and is @code{1} if the key is invalid, and @code{0} otherwise.

@item GPGME_ATTR_KEY_EXPIRED
This specifies if a sub key is expired. It is representable as a number, and is @code{1} if the key is expired, and @code{0} otherwise.

@item GPGME_ATTR_KEY_DISABLED
This specifies if a sub key is disabled. It is representable as a number, and is @code{1} if the key is disabled, and @code{0} otherwise.

@item GPGME_ATTR_KEY_CAPS
This is a description of the capabilities of a sub key. It is representable as a string. The string contains the letter ``e'' if the key can be used for encryption, ``s'' if the key can be used for signatures, and ``c'' if the key can be used for certifications.

@item GPGME_ATTR_CAN_ENCRYPT
This specifies if a sub key can be used for encryption. It is representable as a number, and is @code{1} if the sub key can be used for encryption, and @code{0} otherwise.

@item GPGME_ATTR_CAN_SIGN
This specifies if a sub key can be used to create data signatures. It
is representable as a number, and is @code{1} if the sub key can be used for signatures, and @code{0} otherwise.

@item GPGME_ATTR_CAN_CERTIFY
This specifies if a sub key can be used to create key certificates. It is representable as a number, and is @code{1} if the sub key can be used for certifications, and @code{0} otherwise.

@item GPGME_ATTR_SERIAL
The X.509 issuer serial attribute of the key. It is representable as a string.

@item GPGME_ATTR_ISSUE
The X.509 issuer name attribute of the key. It is representable as a string.

@item GPGME_ATTR_CHAINID
The X.509 chain ID can be used to build the certification chain. It is representable as a string.
@end table
@end deftp

@deftypefun {const char *} gpgme_key_get_string_attr (@w{gpgme_key_t @var{key}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
The function @code{gpgme_key_get_string_attr} returns the value of the string-representable attribute @var{what} of key @var{key}. If the attribute is an attribute of a sub key or an user ID, @var{idx} specifies the sub key or user ID of which the attribute value is returned. The argument @var{reserved} is reserved for later use and should be @code{NULL}.
The string returned is only valid as long as the key is valid.
The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{idx} out of range, or @var{reserved} not @code{NULL}.
@end deftypefun

@deftypefun {unsigned long} gpgme_key_get_ulong_attr (@w{gpgme_key_t @var{key}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
The function @code{gpgme_key_get_ulong_attr} returns the value of the number-representable attribute @var{what} of key @var{key}. If the attribute is an attribute of a sub key or an user ID, @var{idx} specifies the sub key or user ID of which the attribute value is returned. The argument @var{reserved} is reserved for later use and should be @code{NULL}.
The function returns @code{0} if the attribute can't be returned as a
number, @var{key} is not a valid pointer, @var{idx} out of range, or
@var{reserved} not @code{NULL}.
@end deftypefun

@c
@c Key Signatures
@c
The signatures on a key are only available if the key was retrieved
via a listing operation with the @code{GPGME_KEYLIST_MODE_SIGS} mode
enabled, because it is expensive to retrieve all signatures of a key.

So, before using the below interfaces to retrieve the signatures on a
key, you have to make sure that the key was listed with signatures
enabled. One convenient, but blocking, way to do this is to use the
function @code{gpgme_get_key}.

@deftp {Data type} gpgme_attr_t
The @code{gpgme_attr_t} type is used to specify a key signature
attribute. The following attributes are defined:

@table @code
@item GPGME_ATTR_KEYID
This is the key ID of the key which was used for the signature. It is
representable as a string.

@item GPGME_ATTR_ALGO
This is the crypto algorithm used to create the signature. It is
representable as a string and as a number. The numbers correspond to
the @code{enum gcry_pk_algos} values in the gcrypt library.

@item GPGME_ATTR_CREATED
This is the timestamp at creation time of the signature. It is
representable as a number.

@item GPGME_ATTR_EXPIRE
This is the expiration time of the signature. It is representable as
a number.

@item GPGME_ATTR_USERID
This is the user ID associated with the signing key. The user ID is
representable as a number.

@item GPGME_ATTR_NAME
This is the name belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_EMAIL
This is the email address belonging to a user ID. It is representable
as a string.

@item GPGME_ATTR_COMMENT
This is the comment belonging to a user ID. It is representable as a string.

@item GPGME_ATTR_KEY_REVOKED
This specifies if a key signature is a revocation signature. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.

@c @item GPGME_ATTR_KEY_EXPIRED
@c This specifies if a key signature is expired. It is representable as a number, and is @code{1} if the key is revoked, and @code{0} otherwise.
@c
@item GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

@item GPGME_ATTR_SIG_CLASS
This specifies the signature class of a key signature. It is representable as a number. The meaning is specific to the crypto engine.

@item GPGME_ATTR_SIG_STATUS
This is the same value as returned by @code{gpgme_get_sig_status}.
@end table
@end deftp
@end deftypefun

@deftypefun {const char *} gpgme_key_sig_get_string_attr (@w{gpgme_key_t @var{key}}, @w{int @var{uid_idx}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
The function @code{gpgme_key_sig_get_string_attr} returns the value of the string-representable attribute @var{what} of the signature @var{idx} on the user ID @var{uid_idx} in the key @var{key}. The argument @var{reserved} is reserved for later use and should be @code{NULL}.

The string returned is only valid as long as the key is valid.

The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{uid_idx} or @var{idx} out of range, or @var{reserved} not @code{NULL}.
@end deftypefun

@deftypefun {unsigned long} gpgme_key_sig_get_ulong_attr (@w{gpgme_key_t @var{key}}, @w{int @var{uid_idx}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})
The function @code{gpgme_key_sig_get_ulong_attr} returns the value of the number-representable attribute @var{what} of the signature @var{idx} on the user ID @var{uid_idx} in the key @var{key}. The argument @var{reserved} is reserved for later use and should be @code{NULL}.

The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{uid_idx} or @var{idx} out of range, or @var{reserved} not @code{NULL}.
@end deftypefun

@c node Information About Trust Items
@c subsection Information About Trust Items
@c cindex trust item, information about
@c cindex trust item, attributes
@c cindex attributes, of a trust item

Trust items have attributes which can be queried using the interfaces below. The attribute identifiers are shared with those for key attributes. @xref{Information About Keys}.

@deftypefun {const char *} gpgme_trust_item_get_string_attr (@w{gpgme_trust_item_t @var{item}}, @w{gpgme_attr_t @var{what}}, @w{const void*@var{reserved}}, @w{int @var{idx}})

The function @code{gpgme_trust_item_get_string_attr} returns the value of the string-representable attribute @var{what} of trust item @var{item}. The arguments @var{idx} and @var{reserved} are reserved for later use and should be @code{0} and @code{NULL} respectively.

The string returned is only valid as long as the key is valid.

The function returns @code{0} if an attribute can't be returned as a string, @var{key} is not a valid pointer, @var{idx} out of range, or @var{reserved} not @code{NULL}.
@end deftypefun

@deftypefun int gpgme_trust_item_get_int_attr (@w{gpgme_trust_item_t @var{item}}, @w{gpgme_attr_t @var{what}}, @w{const void *@var{reserved}}, @w{int @var{idx}})

The function @code{gpgme_trust_item_get_int_attr} returns the value of the number-representable attribute @var{what} of trust item @var{item}. If the attribute occurs more than once in the trust item, the index is specified by @var{idx}. However, currently no such attribute exists, so @var{idx} should be @code{0}. The argument @var{reserved} is reserved for later use and should be @code{NULL}.

The function returns @code{0} if the attribute can't be returned as a number, @var{key} is not a valid pointer, @var{idx} out of range, or @var{reserved} not @code{NULL}.
The `gpgme_sig_stat_t` type holds the result of a signature check, or the combined result of all signatures. The following results are possible:

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPGME_SIG_STAT_NONE</td>
<td>This status should not occur in normal operation.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_GOOD</td>
<td>This status indicates that the signature is valid. For the combined result this status means that all signatures are valid.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_GOOD_EXP</td>
<td>This status indicates that the signature is valid but expired. For the combined result this status means that all signatures are valid and expired.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_GOOD_EXPKEY</td>
<td>This status indicates that the signature is valid but the key used to verify the signature has expired. For the combined result this status means that all signatures are valid and all keys are expired.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_BAD</td>
<td>This status indicates that the signature is invalid. For the combined result this status means that all signatures are invalid.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_NOKEY</td>
<td>This status indicates that the signature could not be verified due to a missing key. For the combined result this status means that all signatures could not be checked due to missing keys.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_NOSIG</td>
<td>This status indicates that the signature data provided was not a real signature.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_ERROR</td>
<td>This status indicates that there was some other error which prevented the signature verification.</td>
</tr>
<tr>
<td>GPGME_SIG_STAT_DIFF</td>
<td>For the combined result this status means that at least two signatures have a different status. You can get each key's status with <code>gpgme_get_sig_status</code>.</td>
</tr>
</tbody>
</table>
The function \texttt{gpgme\_get\_sig\_status} is equivalent to:

\begin{verbatim}
@{example
  gpgme\_verify\_result\_t result;
  gpgme\_signature\_t sig;

  result = gpgme\_op\_verify\_result (ctx);
  sig = result->signatures;

  while (sig && idx)
  @{[while statement]
    sig = sig->next;
    idx--;
  @} if (!sig || idx)
  return NULL;

  if (r_stat)
  @{[switch statement]}
    switch (gpg\_err\_code (sig->status))
  @} case GPG\_ERR\_NO\_ERROR:
    *r_stat = GPGME\_SIG\_STAT\_GOOD;
    break;

  case GPG\_ERR\_BAD\_SIGNATURE:
    *r_stat = GPGME\_SIG\_STAT\_BAD;
    break;

  case GPG\_ERR\_NO\_PUBKEY:
    *r_stat = GPGME\_SIG\_STAT\_NOKEY;
    break;

  case GPG\_ERR\_NO\_DATA:
    *r_stat = GPGME\_SIG\_STAT\_NOSIG;
    break;

  case GPG\_ERR\_SIG\_EXPIRED:
    *r_stat = GPGME\_SIG\_STAT\_GOOD\_EXP;
    break;

  case GPG\_ERR\_KEY\_EXPIRED:
    *r_stat = GPGME\_SIG\_STAT\_GOOD\_EXPKEY;

@end example
@end deftp
@end deftypefun {const char *} gpgme_get_sig_status (@w{gpgme\_ctx\_t @var{ctx}}, @w{int @var{idx}},
@w{gpgme\_sig\_stat\_t *@var{r\_stat}}, @w{time\_t *@var{r\_created}})
\end{verbatim}
break;

default:
    \*r_stat = GPGME_SIG_STAT_ERROR;
    break;
@}
@}
if (r_created)
    \*r_created = sig->timestamp;
return sig->fpr;
@end example
@end deftypefun

@deftypefun {const char *} gpgme_get_sig_string_attr (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}},
@w{gpgme_attr_t @var{what}}, @w{int @var{whatidx}})
The function @code{gpgme_get_sig_string_attr} is equivalent to:

@example
     gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
@
    sig = sig->next;
    idx--;
@
if (!sig || idx)
    return NULL;

switch (what)
@
    case GPGME_ATTR_FPR:
        return sig->fpr;

    case GPGME_ATTR_ERRTOK:
        if (whatidx == 1)
            return sig->wrong_key_usage ? "Wrong_Key_Usage" : "";
        else
            return "";
        default:
            break;
@

return NULL;
@end example
The function `gpgme_get_sig_ulong_attr` is equivalent to:

```c
@example
gpgme_verify_result_t result;
gpgme_signature_t sig;

result = gpgme_op_verify_result (ctx);
sig = result->signatures;

while (sig && idx)
@{
    sig = sig->next;
    idx--;
}@
if (!sig || idx)
    return 0;

switch (what)
@{
    case GPGME_ATTR_CREATED:
        return sig->timestamp;

    case GPGME_ATTR_EXPIRE:
        return sig->exp_timestamp;

    case GPGME_ATTR_VALIDITY:
        return (unsigned long) sig->validity;

    case GPGME_ATTR_SIG_STATUS:
        switch (sig->status)
@{
        case GPG_ERR_NO_ERROR:
            return GPGME_SIG_STAT_GOOD;

        case GPG_ERR_BAD_SIGNATURE:
            return GPGME_SIG_STAT_BAD;

        case GPG_ERR_NO_PUBKEY:
            return GPGME_SIG_STAT_NOKEY;

        case GPG_ERR_NO_DATA:
            return GPGME_SIG_STAT_NOSIG;

        case GPG_ERR_SIG_EXPIRED:
            return GPGME_SIG_STAT_EXPIRED;

        default:
            return GPGME_SIG_STAT_UNKNOWN;
        }
return GPGME_SIG_STAT_GOOD_EXP;

case GPG_ERR_KEY_EXPIRED:
    return GPGME_SIG_STAT_GOOD_EXPKEY;

default:
    return GPGME_SIG_STAT_ERROR;
@end

case GPGME_ATTR_SIG_SUMMARY:
    return sig->summary;

default:
    break;
@end
return 0;
@end_deftypefun

@deftypefun {const char *} gpgme_get_sig_key (@w{gpgme_ctx_t @var{ctx}}, @w{int @var{idx}},
@w{gpgme_key_t *@var{r_key}})
The function @code{gpgme_get_sig_key} is equivalent to:

@example
gpgme_verify_result_t result;
gpgme_signature_t sig;
result = gpgme_op_verify_result (ctx);
sig = result->signatures;
while (sig && idx)
    @{ 
    sig = sig->next;
    idx--;
    @} 
if (!sig || idx)
    return gpg_error (GPG_ERR_EOF);
return gpgme_get_key (ctx, sig->fpr, r_key, 0);
@end_example
@end_deftypefun

@include lesser.texi
(21:protected-private-key(3:elg(1:p129:[B36f(s7)+ZJ/pvE;"tg7Nca"Gxxvnyu&bB#h'?=89&oG R<hO)(1:g1):(1:y128:Ji]WU_UP]AQYMHAl"]e[\_tcMDNg\][QnWgK4pY(5bDCs)(9:protected25:openpgp-s2k3-shal-aes-cbc(4:sha18:JcE7:6452224)[16;i[Q*vK]192:FJA!O!ZAF bi&Ts!t &9@R!-V+x>u?sedDz-W(yqf?u^e?s1saV8<T0:tc5%ZMh?|$\_y_e[1D])(12:protected-at15:20130812T105135))) (private-key (oid.1.2.840.113549.1.1.1 (n #00e0ce96f90b6c9e02f3922beada93fe50a875eac6bce18bb9a9cf2e84965ca2d1ff95a71542465ce6c0c19d276e4526ce 048e868a7a141fd343cc3a877d74291fffc5655065bbcb5cbac6a0e2dd1f8bcaab0d4a29c2f37c950f363484bf269f7f8914 40464ba7f7827e03a36e70b814938eebdc63e964247be75d58b014b7ea251#) (e #010001#) (d #046129f248d9d71579be0a75fe029bd6c5b754ebf57e8a5b0fda942cab943b117d7bb95e52887e50f9c5fccc06a726d502464da8b6d78ef6b716177b83d5bdc543dc5d3f932e59f5897e92e6f58a0f334 24106a3b6fa2cbf877510e4ac21c3ee47851e979f12996222ac3566d4ccb0b83d646074abf7de655fc244 6da1781#) (p #00e861b700e17e8afe6837e7512e35b6ca11d0ae47d885161e67baf64377213fe52d772f2035b3ca830af41d8a4120e 1c170d12cc2f00d28d31d48a8d424f1#) (q #00f7a7ca5367c661ff862df34f0d05c10c88e5492348dd7bdde942e9a8f369f935a07785d2db805215ed786e4285df16 58eed3ce84f4f69b81b50d358407b4ad361#) (u #304559a9ead56d2309d203811a641bb1a09626bc8eb36fffa23c968ec5bd891eebbaf7c3ae666e01ba7c8990bae06cc2 bbe10b75e69fcaeb353a6473079d8e9b#) ) ) # libgpgme.vers - List of symbols to export. # Copyright (C) 2002, 2004, 2005, 2009, 2012 g10 Code GmbH # # This file is part of GPGME. # # GPGME is free software; you can redistribute it and/or modify
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-------------------------------------------------------
Please remember to add new functions also to gpgme.def
-------------------------------------------------------

GPGME_1.1 {
  global:
    gpgme_set_engine_info;
    gpgme_ctx_get_engine_info;
    gpgme_ctx_set_engine_info;
    gpgme_data_set_file_name;
    gpgme_data_get_file_name;
    gpgme_data_identify;
    gpgme_sig_notation_clear;
    gpgme_sig_notation_add;
    gpgme_sig_notation_get;
    gpgme_free;
    gpgme_op_getauditlog_start;
    gpgme_op_getauditlog;
    gpgme_conf_release;
    gpgme_conf_arg_new;
    gpgme_conf_arg_release;
    gpgme_conf_opt_change;
    gpgme_op_conf_load;
    gpgme_op_conf_save;
    gpgme_op_conf_dir;
    gpgme_cancel_async;
    gpgme_op_assuan_result;
    gpgme_op_assuan_transact;
}

#-------------------------------------------------------
# Please remember to add new functions also to gpgme.def
#-------------------------------------------------------
gpgme_op_assuan_transact_start;
gpgme_check_version_internal;
gpgme_io_read;
gpgme_io_write;
gpgme_result_ref;
gpgme_result_unref;
gpgme_op_import_keys;
gpgme_op_import_keys_start;
gpgme_op_export_keys;
gpgme_op_export_keys_start;
gpgme_op_assuan_transact_ext;
gpgme_wait_ext;
gpgme_op_vfs_mount_result;
gpgme_op_vfs_mount;
gpgme_op_vfs_create;
gpgme_key_from_uid;
gpgme_set_sub_protocol;
gpgme_get_sub_protocol;
gpgme_op_passwd_start;
gpgme_op_passwd;
gpgme_set_global_flag;
gpgme_io_writen;
gpgme_set_pinentry_mode;
gpgme_get_pinentry_mode;
gpgme_get_dirinfo;
gpgme_op_spawn_start;
gpgme_op_spawn;
gpgme_set_offline;
gpgme_get_offline;
gpgme_set_status_cb;
gpgme_get_status_cb;
gpgme_pubkey_algo_string;
gpgme_set_ctx_flag;
gpgme_get_ctx_flag;
gpgme_data_set_flag;

gpgme_op_createkey_start;
gpgme_op_createkey;
gpgme_op_create_subkey_start;
gpgme_op_create_subkey;
gpgme_op_adduid_start;
gpgme_op_adduid;
gpgme_op_revuid_start;
gpgme_op_revuid;
gpgme_op_keysign_start;
gpgme_op_keysign;
gpgme_op_tofu_policy_start;
gpgme_op_tofu_policy;
gpgme_op_interact_start;
gpgme_op_interact;

gpgme_addrspec_from_uid;

gpgme_set_sender;
gpgme_get_sender;

gpgme_op_query_swdb;
gpgme_op_query_swdb_result;

gpgme_op_set_uid_flag_start;
gpgme_op_set_uid_flag;

gpgme_op_decrypt_ext;
gpgme_op_decrypt_ext_start;

gpgme_data_new_from_estream;

};

GPGME_1.0 {
  global:
    gpgme_check_version;
    gpgme_get_engine_info;
    gpgme_engine_check_version;

    gpgme_err_code_from_errno;
    gpgme_err_code_to_errno;
    gpgme_err_make_from_errno;

gpgme_error_from_errno;
gpgme_strerror;
gpgme_strerror_r;
gpgme_strsource;


gpgme_data_get_encoding;
gpgme_data_new;
gpgme_data_new_from_cbs;
gpgme_data_new_from_fd;
gpgme_data_new_from_file;
gpgme_data_new_from_filepart;
gpgme_data_new_from_mem;
gpgme_data_new_from_stream;
gpgme_data_read;
gpgme_data_release;
gpgme_data_release_and_get_mem;
gpgme_data_seek;
gpgme_data_set_encoding;
gpgme_data_write;


gpgme_get_protocol_name;
gpgme_hash_algo_name;
gpgme_pubkey_algo_name;


gpgme_new;
gpgme_get_armor;
gpgme_get_include_certs;
gpgme_get_io_cbs;
gpgme_get_keylist_mode;
gpgme_get_passphrase_cb;
gpgme_get_progress_cb;
gpgme_get_protocol;
gpgme_get_textmode;
gpgme_release;
gpgme_set_armor;
gpgme_set_include_certs;
gpgme_set_io_cbs;
gpgme_set_keylist_mode;
gpgme_set_locale;
gpgme_set_passphrase_cb;
gpgme_set_progress_cb;
gpgme_set_protocol;
gpgme_set_textmode;
gpgme_signers_add;
gpgme_signers_clear;
gpgme_signers_count;
gpgme_signers_enum;
gpgme_key_ref;
gpgme_key_unref;
gpgme_key_release;

gpgme_trust_item_ref;
gpgme_trust_item_unref;

gpgme_cancel;
gpgme_op_card_edit;
gpgme_op_card_edit_start;
gpgme_op_decrypt;
gpgme_op_decrypt_result;
gpgme_op_decrypt_start;
gpgme_op_decrypt_verify;
gpgme_op_decrypt_verify_start;
gpgme_op_delete;
gpgme_op_delete_start;
gpgme_op_delete_ext;
gpgme_op_delete_ext_start;
gpgme_op_edit;
gpgme_op_edit_start;
gpgme_op_encrypt;
gpgme_op_encrypt_start;
gpgme_op_encrypt_ext;
gpgme_op_encrypt_ext_start;
gpgme_op_encrypt_sign;
gpgme_op_encrypt_sign_ext;
gpgme_op_encrypt_sign_start;
gpgme_op_encrypt_sign_ext_start;
gpgme_op_encrypt_result;

gpgme_op_export;
gpgme_op_export_ext;
gpgme_op_export_ext_start;
gpgme_op_export_start;
gpgme_op_genkey;
gpgme_op_genkey_result;
gpgme_op_genkey_start;
gpgme_get_key;
gpgme_op_import;
gpgme_op_import_result;
gpgme_op_import_start;
gpgme_op_keylist_end;
gpgme_op_keylist_ext_start;
gpgme_op_keylist_from_data_start;
gpgme_op_keylist_next;
gpgme_op_keylist_result;
gpgme_op_keylist_start;
gpgme_op_sign;
gpgme_op_sign_result;
gpgme_op_sign_start;
gpgme_op_trustlist_end;
gpgme_op_trustlist_next;
gpgme_op_trustlist_start;
gpgme_op_verify;
gpgme_op_verify_result;
gpgme_op_verify_start;
gpgme_wait;


gpgme_data_new_with_read_cb;
gpgme_data_rewind;
gpgme_get_sig_status;
gpgme_get_sig_string_attr;
gpgme_get_sig_ulong_attr;
gpgme_get_sig_key;
gpgme_key_get_string_attr;
gpgme_key_get_ulong_attr;
gpgme_key_sig_get_string_attr;
gpgme_key_sig_get_ulong_attr;
gpgme_op_import_ext;
gpgme_trust_item_get_int_attr;
gpgme_trust_item_get_string_attr;
gpgme_trust_item_release;

gpgme_err_code_from_syserror;
gpgme_err_set_errno;

local:
  *

};

#+TITLE: Stuff To Do
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage[xltex]
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[ Ligatures={Common} ]{Latin Modern Roman}

* Project Task List
:PROPERTIES:
:CUSTOM_ID: task-list
:END:

** DONE Documentation default format
CLOSED: [2018-02-15 Thu 21:29]
Decide on a default file format for documentation. The two main contenders being Org Mode, the default for the GnuPG Project and reStructuredText, the default for Python projects. A third option of DITA XML was considered due to a number of beneficial features it provides.

The decision was made to use Org Mode in order to fully integrate with the rest of the GPGME and GnuPG documentation. It is possible to produce reST versions via Pandoc and DITA XML can be reached through converting to either Markdown or XHTML first.

** TODO Documentation build systems

Though Org Mode is being used for the default documentation format, it still needs to end up as usable by end users. So the Org Mode files are used to produce the "source" files used by the two main contenders for documenting the bindings: Texinfo and ReStructuredText/Docutils.

*** TODO Texinfo documentation

Need to add all of Texinfo's ... special systems to make it do its things.

*** TODO ReStructuredText documentation

Need to run Sphinx's quick start, add it to the requirements and tweak the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the lot, then the Sphinx bits can be automated.
Write a HOWTO style guide for the current Python bindings.

Note: moved the S/MIME bits out to their own section of the TODO list and may be served better by separate HOWTO documentation anyway.

Some functions can be worked out from the handful of examples available, but many more can't and I've already begun receiving requests for certain functions to be explained.

All four of those are done.

Began with the example code, now to add the text.

What everyone expects: encryption, decryption, signing and verifying.

**** STARTED Key control
 :PROPERTIES:
 :CUSTOM_ID: howto-key-control
 :END:
Generating keys and subkeys are done, but revocation is still to be done. Generating keys, adding subkeys, revoking subkeys (and keeping the cert key), adding and revoking UIDs, signing/certifying keys.

**** DONE More key control
CLOSED: [2018-03-19 Mon 12:36]
:PROPERTIES:
:CUSTOM_ID: howto-key-selection
:END:

- State "DONE" from "TODO" [2018-03-19 Mon 12:36] \n  Key selection, searching, matching and counting is done.
Selecting keys to encrypt to or manipulate in other ways (e.g. as with key control or the basics).

** TODO Documentation SWIG
:PROPERTIES:
:CUSTOM_ID: todo-docs-swig
:END:

Write documentation for the complete SWIG bindings demonstrating the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of something to be used in conjunction with the existing GPGME documentation which makes it easier for Python developers to use.

** TODO GUI examples
:PROPERTIES:
:CUSTOM_ID: todo-gui-examples
:END:

Create some examples of using Python bindings in a GUI application to either match or be similar to the old GTK2 examples available with PyME.

** TODO Replace SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig
:END:

Selecting SWIG for this project in 2002 was understandable and
effectively the only viable option. The options available now, however, are significantly improved and some of those would resolve a number of existing problems with using SWIG, particularly when running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python bindings using a more suitable means of interfacing with the GPGME C source code.

*** TODO Replacement for SWIG

:PROPERTIES:
:CUSTOM_ID: todo-replace-swig-replacement
:END:

Decide on a replacement for SWIG. Currently CFFI is looking like the most viable candidate, but some additional testing and checks are yet to be completed.

** TODO API for an API

:PROPERTIES:
:CUSTOM_ID: todo-api-squared
:END:

A C API like GPGME is not what most modern developers think of when they hear the term API. Normally they think of something they can interact with like a RESTful web API. Though RESTful is unlikely given the nature of GPGME and the process of encryption, it may be possible to provide a more familiar interface which can be utilised by developers of other languages for which bindings are not available or for which it is too difficult to create proper bindings.

** TODO S/MIME

:PROPERTIES:
:CUSTOM_ID: s-mime
:END:

Eventually add some of this, but the OpenPGP details are far more important at the moment.

* Project Task Details

:PROPERTIES:
:CUSTOM_ID: detailed-tasks
:END:
** Working examples

The old GUI examples were unable to be retained since they depended on GTK2 and Python 2's integration with GTK2.

Current GPGME examples so far only include command line tools or basic Python code for use with either Python 2.7 or Python 3.4 and above.

Future GUI examples ought to utilise available GUI modules and libraries supported by Python 3. This may include Qt frameworks, Tkinter, GTK3 or something else entirely.

** Documentation

The legacy documentation which no longer applies to the Python bindings has been removed.

Current and future documentation will adhere to the GnuPG standard of using Org Mode and not use the reStructuredText (reST) format more commonly associated with Python documentation. The reasons for this are that this project is best served as shipping with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode's publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

If reST files are required at a later point for future inclusion with other Python packages, then that format can be generated from the .org files with Pandoc before being leveraged by either Docutils, Sphinx or something else.

While there are some advanced typesetting features of reST which are not directly available to Org Mode, more often than not those features are best implemented with either HTML and CSS, with LaTeX to produce a PDF or via a number of XML solutions. Both reST and Org Mode have multiple paths by which to achieve all of these.

-----BEGIN PGP PRIVATE KEY BLOCK-----

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 12282

-----END PGP PRIVATE KEY BLOCK-----

\input texinfo  @c -*- texinfo -*-
@c %**start of header
@setfilename maintenance-mode.info
@settitle Maintenance Mode
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title Maintenance Mode
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top Maintenance Mode
@end ifnottex

@menu
*Maintenance Mode from 2019::

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@node Maintenance Mode from 2019
@chapter Maintenance Mode from 2019
From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

For most, if not all, Python developers using these bindings; they
will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the @uref{https://lists.gnupg.org/mailman/listinfo/gnupg-devel, gnupg-devel mailing list}.

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and @emph{not} a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to @uref{https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset, expedite it} (use the message field to state what feature is being requested).

@node Documentation formats
@section Documentation formats

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.
Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by @uref{https://readthedocs.org/, Read the Docs} and the @uref{https://docs.python.org/, Python documentation}, there are a number of output formats it does not handle well. At the top of the list of things it manages to break so atrociously as to be embarrassing is the @uref{http://idpf.org/epub, EPUB 3} format.

The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here @uref{https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub, produced a file} with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a @uref{https://dev.gnupg.org/maniphest/task/edit/form/4/, feature request} case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

@bye

;;; gpgme.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify it
;;; under the terms of the GNU General Public License as published by
;;; the Free Software Foundation; either version 2 of the License, or
;;; (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

;;; Set up the library.

(in-package :gpgme)

(deftype byte-array ()
  '(simple-array (unsigned-byte 8) *)))

(deftype character-array ()
  '(simple-array character *)))

;;; Debugging.

(defun get-errno ()
  *errno*)

(defun set-errno (errno)
  (setf *errno* errno))

(define-condition system-error (error)
  ((errno :initarg :errno :reader system-error-errno)
   (:report (lambda (c stream)
             (format stream "System error: ~A: ~A"
                     (system-error-errno c)
                     (c-strerror (system-error-errno c)))))
   (:documentation "Signalled when an errno is encountered."))
; Needed to write passphrases.
(defun system-write (fd buffer size)
  (let ((res (c-write fd buffer size)))
    (when (< res 0) (error 'system-error :errno (get-errno)))
    res))

;;; C Interface Definitions

;;; Data Type Interface

;;; Some new data types used for easier translation.

;;; The number of include certs. Translates to NIL for default.
(defun cert-int-t)
  (:wrapper :int
    :from-c translate-cert-int-t-from-foreign
    :to-c translate-cert-int-t-to-foreign))

;;; A string that may be NIL to indicate a null pointer.
(defun string-or-nil-t)
  (:wrapper :string
    :to-c translate-string-or-nil-t-to-foreign))

;;; Some opaque data types used by GPGME.

(defun gpgme-ctx-t)
  (:wrapper :pointer
    :to-c translate-gpgme-ctx-t-to-foreign)
  "The GPGME context type.")

(defun gpgme-data-t)
  (:wrapper :pointer
    :to-c translate-gpgme-data-t-to-foreign)
  "The GPGME data object type.")

;;; Wrappers for the libgpg-error library.

(defun gpgme-error-t)
  (:wrapper gpg-error::gpg-error-t
    :from-c translate-gpgme-error-t-from-foreign)
:to-c translate-gpgme-error-t-to-foreign)
"The GPGME error type."

(defun gpgme-err-make (source code)
 "Construct an error value from an error code and source."
 (gpg-err-make source code))

(defun gpgme-error (code)
 "Construct an error value from an error code."
 (gpgme-err-make :gpg-err-source-gpgme code))

(defun gpgme-err-code (err)
 "Retrieve an error code from the error value ERR."
 (gpg-err-code err))

(defun gpgme-err-source (err)
 "Retrieve an error source from the error value ERR."
 (gpg-err-source err))

(defun gpgme-strerror (err)
 "Return a string containing a description of the error code."
 (gpg-strerror err))

(defun gpgme-strsource (err)
 "Return a string containing a description of the error source."
 (gpg-strsource err))

(defun gpgme-err-code-from-errno (err)
 "Retrieve the error code for the system error. If the system error
 is not mapped, :gpg-err-unknown-errno is returned."
 (gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)
 "Retrieve the system error for the error code. If this is not a
 system error, 0 is returned."
 (gpg-err-code-to-errno code))
(defun gpgme-err-make-from-errno (source err)
  (gpg-err-make-from-errno source err))

(defun gpgme-error-from-errno (err)
  (gpg-error-from-errno err))

;;;

(defcenum gpgme-data-encoding-t
  "The possible encoding mode of gpgme-data-t objects."
  (:none 0)
  (:binary 1)
  (:base64 2)
  (:armor 3)
  (:url 4)
  (:urlesc 5)
  (:url0 6)
  (:mime 7))

;;;

(defcenum gpgme-pubkey-algo-t
  "Public key algorithms from libgcrypt."
  (:rsa 1)
  (:rsa-e 2)
  (:rsa-s 3)
  (:elg-e 16)
  (:dsa 17)
  (:ecc 18)
  (:elg 20)
  (:ecdsa 301)
  (:ecdh 302)
  (:eddsa 303))

(defcenum gpgme-hash-algo-t
  "Hash algorithms from libgcrypt."
  (:none 0)
  (:md5 1)
  (:sha1 2)
  (:rmd160 3)
  (:md2 5)
  (:tiger 6)
  (:haval 7)
  (:sha256 8)
  (:sha384 9)
  (:sha512 10)
  (:sha224 11)
  (:md4 301)
;;;

(defcenum gpgme-sig-mode-t
  "The available signature modes."
  (:none 0)
  (:detach 1)
  (:clear 2))

;;;

(defcenum gpgme-validity-t
  "The available validities for a trust item or key."
  (:unknown 0)
  (:undefined 1)
  (:never 2)
  (:marginal 3)
  (:full 4)
  (:ultimate 5))

;;;

(defcenum gpgme-protocol-t
  "The available protocols."
  (:openpgp 0)
  (:cms 1)
  (:gpgconf 2)
  (:assuan 3)
  (:g13 4)
  (:uiserver 5)
  (:spawn 6)
  (:default 254)
  (:unknown 255))

;;;

(defbitfield (gpgme-keylist-mode-t :unsigned-int)
  "The available keylist mode flags."
  (:local 1)
  (:extern 2)
  (:sigs 4)
  (:sig-notations)
  (:with-secret 16)
  (:with-tofu 32)
  (:ephemeral 128)
(validate 256))

;;

(define (gpgme-sig-notation-flags-t :unsigned-int)
  "The available signature notation flags."
  (:human-readable 1)
  (:critical 2))

(define gpgme-sig-notation-t
  (:wrapper :pointer
    :from-c translate-gpgme-sig-notation-t-from-foreign)
  "Signature notation pointer type.")

;; FIXME: Doesn't this depend on endianness?
(define (gpgme-sig-notation-bitfield :unsigned-int)
  (:human-readable 1)
  (:critical 2))

(define gpgme-sig-notation
  "Signature notations."
  (next gpgme-sig-notation-t)
  (name :pointer)
  (value :pointer)
  (name-len :int)
  (value-len :int)
  (flags gpgme-sig-notation-flags-t)
  (bitfield gpgme-sig-notation-bitfield))

;;

(define gpgme-status-code-t
  "The possible status codes for the edit operation."
  (:eof 0)
  (:enter 1)
  (:leave 2)
  (:abort 3)
  (:goodsig 4)
  (:badsig 5)
  (:errsig 6)
  (:badarmor 7)
  (:rsa-or-idea 8)
  (:keyexpired 9)
  (:keyrevoked 10)
  (:trust-undefined 11)
  (:trust-never 12)
  (:trust-marginal 13)
  (:trust-fully 14)
(trust-ultimate 15)
(shm-info 16)
(shm-get 17)
(shm-get-bool 18)
(shm-get-hidden 19)
(need-passphrase 20)
(validsig 21)
(sig-id 22)
(enc-to 23)
(nodata 24)
(bad-passphrase 25)
(no-pubkey 26)
(no-seckey 27)
(need-passphrase-sym 28)
(decryption-failed 29)
(decryption-okay 30)
(missing-passphrase 31)
(good-passphrase 32)
(goodmdc 33)
(badmdc 34)
(errmdc 35)
(imported 36)
(import-ok 37)
(import-problem 38)
(import-res 39)
(file-start 40)
(file-done 41)
(file-error 42)
(begin-decryption 43)
(end-decryption 44)
(begin-encryption 45)
(end-encryption 46)
(delete-problem 47)
(get-bool 48)
(get-line 49)
(get-hidden 50)
(got-it 51)
(progress 52)
(sig-created 53)
(session-key 54)
(notation-name 55)
(notation-data 56)
(policy-url 57)
(begin-stream 58)
(end-stream 59)
(key-created 60)
(userid-hint 61)
(unexpected 62)
(defctype gpgme-engine-info-t
  (:wrapper :pointer
    :from-c translate-gpgme-engine-info-t-to-foreign)
  "The engine information structure pointer type."
)
(defcstruct gpgme-engine-info
  "Engine information."
(next gpgme-engine-info-t)
(protocol gpgme-protocol-t)
(file-name :string)
(version :string)
(req-version :string)
(home-dir :string))

;;

(defctype gpgme-subkey-t
  (:wrapper :pointer
    :from-c translate-gpgme-subkey-t-from-foreign)
  "A subkey from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
  "The subkey bitfield."
  (:revoked 1)
  (:expired 2)
  (:disabled 4)
  (:invalid 8)
  (:can-encrypt 16)
  (:can-sign 32)
  (:can-certify 64)
  (:secret 128)
  (:can-authenticate 256)
  (:is-qualified 512)
  (:is-cardkey 1024)
  (:is-de-vs 2048))

(defcstruct gpgme-subkey
  "Subkey from a key."
  (next gpgme-subkey-t)
  (bitfield gpgme-subkey-bitfield)
  (pubkey-algo gpgme-pubkey-algo-t)
  (length :unsigned-int)
  (keyid :string)
  (-keyid :char :count 17)
  (fpr :string)
  (timestamp :long)
  (expires :long))

(defctype gpgme-key-sig-t
  (:wrapper :pointer
    :from-c translate-gpgme-key-sig-t-from-foreign)
  "A signature on a user ID.")
;;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-sig-bitfield :unsigned-int)
 "The key signature bitfield."
 (:revoked 1)
 (:expired 2)
 (:invalid 4)
 (:exportable 16))

(defcstruct gpgme-key-sig
 "A signature on a user ID."
 (next gpgme-key-sig-t)
 (bitfield gpgme-key-sig-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (keyid :string)
 (-keyid :char :count 17)
 (timestamp :long)
 (expires :long)
 (status gpgme-error-no-signal-t)
 (-class :unsigned-int)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (sig-class :unsigned-int))

(defctype gpgme-user-id-t
 (:wrapper :pointer
 :from-c translate-gpgme-user-id-t-from-foreign)
 "A user ID from a key.")

;;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
 "The user ID bitfield."
 (:revoked 1)
 (:invalid 2))

(defcstruct gpgme-user-id
 "A user ID from a key."
 (next gpgme-user-id-t)
 (bitfield gpgme-user-id-bitfield)
 (validity gpgme-validity-t)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (signatures gpgme-key-sig-t)
 (-last-keysig gpgme-key-sig-t))
(defcstruct gpgme-key
  "A signature on a user ID."
  (-refs :unsigned-int)
  (bitfield gpgme-key-bitfield)
  (protocol gpgme-protocol-t)
  (issuer-serial :string)
  (issuer-name :string)
  (chain-id :string)
  (owner-trust gpgme-validity-t)
  (subkeys gpgme-subkey-t)
  (uids gpgme-user-id-t)
  (-last-subkey gpgme-subkey-t)
  (-last-uid gpgme-user-id-t)
  (keylist-mode gpgme-keylist-mode-t))

...;

;; There is no support in CFFI to define callback C types and have
;; automatic type checking with the callback definition.

(defctype gpgme-passphrase-cb-t :pointer)

(defctype gpgme-progress-cb-t :pointer)

(defctype gpgme-edit-cb-t :pointer)
;; Function Interface

;;; Context management functions.

(defun ("gpgme_new" c-gpgme-new) gpgme-error-t
  (ctx :pointer))

(defun ("gpgme_release" c-gpgme-release) :void
  (ctx gpgme-ctx-t))

(defun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
  (ctx gpgme-ctx-t)
  (proto gpgme-protocol-t))

(defun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
  (proto gpgme-protocol-t))

(defun ("gpgme_set_armor" c-gpgme-set-armor) :void
  (ctx gpgme-ctx-t)
  (yes :boolean))

(defun ("gpgme_get_armor" c-gpgme-get-armor) :boolean
  (ctx gpgme-ctx-t))

(defun ("gpgme_set_textmode" c-gpgme-set-textmode) :void
  (ctx gpgme-ctx-t)
  (yes :boolean))

(defun ("gpgme_get_textmode" c-gpgme-get-textmode) :boolean
  (ctx gpgme-ctx-t))

(defconstant +include-certs-default+ -256)

(defun ("gpgme_set_include_certs" c-gpgme-set-include-certs) :void
  (ctx gpgme-ctx-t)
  (nr-of-certs cert-int-t))

(defun ("gpgme_get_include_certs" c-gpgme-get-include-certs) cert-int-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_set_keylist_mode" c-gpgme-set-keylist-mode) gpgme-error-t
  (ctx gpgme-ctx-t))
(algo gpgme-hash-algo-t))

;;;

(defcfun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_signers_add" c-gpgme-signers-add) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t))

(defcfun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
  (ctx gpgme-ctx-t)
  (seq :int))

;;;

(defcfun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
  (ctx gpgme-ctx-t)
  (name :string)
  (value string-or-nil-t)
  (flags gpgme-sig-notation-flags-t))

(defcfun ("gpgme_sig_notation_get" c-gpgme-sig-notation-get)
  gpgme-sig-notation-t
  (ctx gpgme-ctx-t))

;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
  "The possible events on I/O event callbacks."
  (:start 0)
  (:done 1)
  (:next-key 2)
  (:next-trustitem 3))
(defctype gpgme-event-io-cb-t :pointer)

(defcstruct gpgme-io-cbs
  "I/O callbacks."
  (add gpgme-register-io-cb-t)
  (add-priv :pointer)
  (remove gpgme-remove-io-cb-t)
  (event gpgme-event-io-cb-t)
  (event-priv :pointer))

(defctype gpgme-io-cbs-t :pointer)

(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
  (ctx gpgme-ctx-t)
  (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
  (ctx gpgme-ctx-t)
  (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
  (ctx gpgme-ctx-t)
  (status-p :pointer)
  (hang :int))

;;; Functions to handle data objects.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)

(defcstruct gpgme-data-cbs
  "Data callbacks."
  (read gpgme-data-read-cb-t)
  (write gpgme-data-write-cb-t)
  (seek gpgme-data-seek-cb-t)
  (release gpgme-data-release-cb-t))

(defctype gpgme-data-cbs-t :pointer
  "Data callbacks pointer."
)

(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
  (dh gpgme-data-t)
  (buffer :pointer)
(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
dh gpgme-data-t
(buffer :pointer)
(size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
dh gpgme-data-t
(offset off-t)
(whence :int))

(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
dh-p :pointer)
(buffer :pointer)
(size size-t)
(copy :int))

(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem)
 :pointer
dh gpgme-data-t)
(len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
dh-p :pointer)
(cbs gpgme-data-cbs-t)
(handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
dh-p :pointer)
(fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream)
gpgme-error-t
dh-p :pointer)
(stream :pointer))

(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding)
gpgme-data-encoding-t
dh gpgme-data-t))

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding)
(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
  (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
  (dh gpgme-data-t)
  (file-name string-or-nil-t))

(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t
  (dh-p :pointer)
  (fname :string)
  (copy :int))

(defcfun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart)
  gpgme-error-t
  (dh-p :pointer)
  (fname :string)
  (fp :pointer)
  (offset off-t)
  (length size-t))

;;;; Key and trust functions.

(defcfun ("gpgme_get_key" c-gpgme-get-key) gpgme-error-t
  (ctx gpgme-ctx-t)
  (fpr :string)
  (key-p :pointer)
  (secret :boolean))

(defcfun ("gpgme_key_ref" c-gpgme-key-ref) :void
  (key gpgme-key-t))

(defcfun ("gpgme_key_unref" c-gpgme-key-unref) :void
  (key gpgme-key-t))

;;;; Crypto operations.

(defcfun ("gpgme_cancel" c-gpgme-cancel) gpgme-error-t
  (ctx gpgme-ctx-t))

;;;;

(defctype gpgme-invalid-key-t
  (:wrapper :pointer
   :from-c translate-gpgme-invalid-key-t-from-foreign)
"An invalid key structure.")

(defcstruct gpgme-invalid-key
  "An invalid key structure."
  (next gpgme-invalid-key-t)
  (fpr :string)
  (reason gpgme-error-no-signal-t))

;;; Encryption.

(defcstruct gpgme-op-encrypt-result
  "Encryption result structure."
  (invalid-recipients gpgme-invalid-key-t))

(defctype gpgme-op-encrypt-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-encrypt-result-t-from-foreign)
  "An encryption result structure.")

(defcfun ("gpgme_op_encrypt_result" c-gpgme-op-encrypt-result) gpgme-op-encrypt-result-t (ctx gpgme-ctx-t))

(defbitfield gpgme-encrypt-flags-t
  (:always-trust 1)
  (:no-encrypt-to 2)
  (:prepare 4)
  (:expect-sign 8)
  (:no-compress 16)
  (:symmetric 32)
  (:throw-keyids 64)
  (:wrap 128)
  (:want-address 256))

(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t (ctx gpgme-ctx-t) (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t (ctx gpgme-ctx-t) (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))
(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign" c-gpgme-op-encrypt-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (recp :pointer) ; Key array.
  (flags gpgme-encrypt-flags-t)
  (plain gpgme-data-t)
  (cipher gpgme-data-t))

;;; Decryption.

(defctype gpgme-recipient-t
  (:wrapper :pointer
    :from-c translate-gpgme-recipient-t-from-foreign)
  "A recipient structure.")

defcstruct gpgme-recipient
  "Recipient structure."
  (next gpgme-recipient-t)
  (keyid :string)
  (-keyid :char :count 17)
  (pubkey-algo gpgme-pubkey-algo-t)
  (status gpgme-error-no-signal-t))

defbitfield gpgme-op-decrypt-result-bitfield
  "Decryption result structure bitfield."
  (:wrong-key-usage 1)
  (:is-de-vs 2)
  (:is-mine 4))

defcstruct gpgme-op-decrypt-result
  "Decryption result structure."
  (unsupported-algorithm :string)
  (bitfield gpgme-op-decrypt-result-bitfield)
  (recipients gpgme-recipient-t)
  (file-name :string))

defctype gpgme-op-decrypt-result-t
  (:wrapper :pointer
    :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
  "A decryption result structure.")
(defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result) gpgme-op-decrypt-result-t (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t (ctx gpgme-ctx-t) (cipher gpgme-data-t) (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t (ctx gpgme-ctx-t) (cipher gpgme-data-t) (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start) gpgme-error-t (ctx gpgme-ctx-t) (cipher gpgme-data-t) (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t (ctx gpgme-ctx-t) (cipher gpgme-data-t) (plain gpgme-data-t))

;;; Signing.


(defcstruct gpgme-op-sign-result "Signing result structure." (invalid-signers gpgme-invalid-key-t) (signatures gpgme-new-signature-t))
(defctype gpgme-op-sign-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-sign-result-t-from-foreign)
  "A signing result structure.")

(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
  gpgme-op-sign-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (plain gpgme-data-t)
  (sig gpgme-data-t)
  (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
  (ctx gpgme-ctx-t)
  (plain gpgme-data-t)
  (sig gpgme-data-t)
  (mode gpgme-sig-mode-t))

;;; Verify.

(defbitfield (gpgme-sigsum-t :unsigned-int)
  "Flags used for the summary field in a gpgme-signature-t."
  (:valid #x0001)
  (:green #x0002)
  (:red #x0004)
  (:key-revoked #x0010)
  (:key-expired #x0020)
  (:sig-expired #x0040)
  (:key-missing #x0080)
  (:crl-missing #x0100)
  (:crl-too-old #x0200)
  (:bad-policy #x0400)
  (:sys-error #x0800)
  (:tofu-conflict #x1000))

(defctype gpgme-signature-t
  (:wrapper :pointer
   :from-c translate-gpgme-signature-t-from-foreign)
  "A signature structure.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
  "The signature bitfield."
  (:wrong-key-usage 1)
(defcstruct gpgme-signature
  "Signature structure."
  (next gpgme-signature-t)
  (summary gpgme-sigsum-t)
  (fpr :string)
  (status gpgme-error-no-signal-t)
  (notations gpgme-sig-notation-t)
  (timestamp :unsigned-long)
  (exp-timestamp :unsigned-long)
  (bitfield gpgme-signature-bitfield)
  (validity gpgme-validity-t)
  (validity-reason gpgme-error-no-signal-t)
  (pubkey-algo gpgme-pubkey-algo-t)
  (hash-algo gpgme-hash-algo-t))

(defcstruct gpgme-op-verify-result
  "Verify result structure."
  (signatures gpgme-signature-t)
  (file-name :string))

(defctype gpgme-op-verify-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-verify-result-t-from-foreign)
  "A verify result structure.")

(defcfun ("gpgme_op_verify_result" c-gpgme-op-verify-result)
  gpgme-op-verify-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_verify_start" c-gpgme-op-verify-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (sig gpgme-data-t)
  (signed-text gpgme-data-t)
  (plaintext gpgme-data-t))

(defcfun ("gpgme_op_verify" c-gpgme-op-verify) gpgme-error-t
  (ctx gpgme-ctx-t)
  (sig gpgme-data-t)
  (signed-text gpgme-data-t)
  (plaintext gpgme-data-t))

;;; Import.

(defbitfield (gpgme-import-flags-t :unsigned-int)
"Flags used for the import status field."
 (:new #x0001)
 (:uid #x0002)
 (:sig #x0004)
 (:subkey #x0008)
 (:secret #x0010))

(defctype gpgme-import-status-t
 (:wrapper :pointer
     :from-c translate-gpgme-import-status-t-from-foreign)
 "An import status structure."
)

(defcstruct gpgme-import-status
 "New import status structure."
 (next gpgme-import-status-t)
 (fpr :string)
 (result gpgme-error-no-signal-t)
 (status :unsigned-int))

(defcstruct gpgme-op-import-result
 "Import result structure."
 (considered :int)
 (no-user-id :int)
 (imported :int)
 (imported-rsa :int)
 (unchanged :int)
 (new-user-ids :int)
 (new-sub-keys :int)
 (new-signatures :int)
 (new-revocations :int)
 (secret-read :int)
 (secret-imported :int)
 (secret-unchanged :int)
 (skipped-new-keys :int)
 (not-imported :int)
 (imports gpgme-import-status-t))

(defctype gpgme-op-import-result-t
 (:wrapper :pointer
     :from-c translate-gpgme-op-import-result-t-from-foreign)
 "An import status result structure."
)

(defcfun ("gpgme_op_import_result" c-gpgme-op-import-result) gpgme-op-import-result-t (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t (ctx gpgme-ctx-t))
(keydata gpgme-data-t))

(defun ("gpgme_op_import" c-gpgme-op-import gpgme-error-t)
  (ctx gpgme-ctx-t)
  (keydata gpgme-data-t))

;;; Export.

(defun ("gpgme_op_export_start" c-gpgme-op-export-start gpgme-error-t)
  (ctx gpgme-ctx-t)
  (pattern :string)
  (reserved :unsigned-int)
  (keydata gpgme-data-t))

(defun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t)
  (ctx gpgme-ctx-t)
  (pattern :string)
  (reserved :unsigned-int)
  (keydata gpgme-data-t))

;;; FIXME: Extended export interfaces require array handling.

;;; Key generation.

(defbitfield (gpgme-genkey-flags-t :unsigned-int)
  "Flags used for the key generation result bitfield."
  (:primary #x0001)
  (:sub #x0002)
  (:uid #x0004))

(defcstruct gpgme-op-genkey-result
  "Key generation result structure."
  (bitfield gpgme-genkey-flags-t)
  (fpr :string))

(defctype gpgme-op-genkey-result-t :pointer
  "A key generation result structure.")

(defun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)
  gpgme-op-genkey-result-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t)
  (ctx gpgme-ctx-t)
  (parms :string)
  (pubkey gpgme-data-t)
  (seckey gpgme-data-t))
(defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t
  (ctx gpgme-ctx-t)
  (parms :string)
  (pubkey gpgme-data-t)
  (seckey gpgme-data-t))

;;; Key deletion.

(defun ("gpgme_op_delete_start" c-gpgme-op-delete-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t)
  (allow-secret :int))

(defun ("gpgme_op_delete" c-gpgme-op-delete) gpgme-error-t
  (ctx gpgme-ctx-t)
  (key gpgme-key-t)
  (allow-secret :int))

;;; FIXME: Add edit interfaces.

;;; Keylist interface.

(defbitfield (gpgme-keylist-flags-t :unsigned-int)
  "Flags used for the key listing result bitfield."
  (:truncated #x0001))

(defcstruct gpgme-op-keylist-result
  "Key listing result structure."
  (bitfield gpgme-keylist-flags-t))

(defctype gpgme-op-keylist-result-t :pointer
  "A key listing result structure.")

(defun ("gpgme_op_keylist_result" c-gpgme-op-keylist-result)
  gpgme-op-keylist-result-t
  (ctx gpgme-ctx-t))

(defun ("gpgme_op_keylist_start" c-gpgme-op-keylist-start) gpgme-error-t
  (ctx gpgme-ctx-t)
  (pattern :string)
  (secret_only :boolean))

;;; FIXME: Extended keylisting requires array handling.

(defun ("gpgme_op_keylist_next" c-gpgme-op-keylist-next) gpgme-error-t
  (ctx gpgme-ctx-t)
  (r-key :pointer))
(defcfun ("gpgme_op_keylist_end" c-gpgme-op-keylist-end) gpgme-error-t
tx gpgme-ctx-t))

;; Various functions.

(defun translate-cert-int-t-from-foreign (value)
  (cond
    ((eql value +include-certs-default+) nil)
    (t value)))

(defun translate-cert-int-t-to-foreign (value)
  (cond
    (value value)
    (t +include-certs-default+)))

;; string-or-nil-t translates a null pointer to NIL and vice versa.
;; Translation from foreign null pointer already works as expected.

(defun translate-string-or-nil-t-to-foreign (value)
  (cond
;;; Output only.

;;; These type translators only convert from foreign type, because we
;;; never use these types in the other direction.

;;; Convert gpgme-engine-info-t linked lists into a list of property
;;; lists. Note that this converter will automatically be invoked
;;; recursively.

;;; FIXME: Should we use a hash table (or struct, or clos) instead of
;;; property list, as recommended by the Lisp FAQ?

(defun translate-gpgme-engine-info-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next protocol file-name version req-version home-dir)
         value (:struct gpgme-engine-info))
        (append (list protocol (list
                            :file-name file-name
                            :version version
                            :req-version req-version
                            :home-dir home-dir))
        next))))

(defun translate-gpgme-invalid-key-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((next fpr reason)
         value (:struct gpgme-invalid-key))
        (append (list (list :fpr fpr
                           :reason reason))
        next)))))

(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)
  (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
        ((invalid-recipients)
         value (:struct gpgme-op-encrypt-result))
        (list :encrypt
               (list :invalid-recipients invalid-recipients)))))

(defun translate-gpgme-recipient-t-from-foreign (value)
(cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
      ((next keyid pubkey-algo status)
       value (:struct gpgme-recipient))
      (append (list (list :keyid keyid
                        :pubkey-algo pubkey-algo
                        :status status))
              next)))))

(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((unsupported-algorithm bitfield recipients file-name)
         value (:struct gpgme-op-decrypt-result))
        (list :decrypt (list :unsupported-algorithm unsupported-algorithm
                             :bitfield bitfield
                             :recipients recipients
                             :file-name file-name))))))

(defun translate-gpgme-new-signature-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((next type pubkey-algo hash-algo timestamp fpr sig-class)
         value (:struct gpgme-new-signature))
        (append (list (list :type type
                             :pubkey-algo pubkey-algo
                             :hash-algo hash-algo
                             :timestamp timestamp
                             :fpr fpr
                             :sig-class sig-class))
              next)))))

(defun translate-gpgme-op-sign-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ((invalid-signers signatures)
         value (:struct gpgme-op-sign-result))
        (list :sign (list :invalid-signers invalid-signers
                          :signatures signatures))))))

(defun translate-gpgme-signature-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
        ...))
((next summary fpr status notations timestamp
exp-timestamp bitfield validity validity-reason
pubkey-algo hash-algo)
value (:struct gpgme-signature))
(append (list (list :summary summary
:fpr fpr
:status status
:notations notations
:timestamp timestamp
:exp-timestamp exp-timestamp
:bitfield bitfield
:validity validity
:validity-reason validity-reason
:pubkey-algo pubkey-algo))
next))
)

(defun translate-gpgme-op-verify-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((signatures file-name)
       value (:struct gpgme-op-verify-result))
     (list :verify (list :signatures signatures
       :file-name file-name))))))

(defun translate-gpgme-import-status-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next fpr result status)
       value (:struct gpgme-import-status))
     (append (list (list :fpr fpr
       :result result
       :status status))
   next))))

(defun translate-gpgme-op-import-result-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((considered no-user-id imported imported-rsa unchanged
        new-user-ids new-sub-keys new-signatures
        new-revocations secret-read secret-imported
        secret-unchanged skipped-new-keys not-imported
        imports)
       value (:struct gpgme-op-import-result))
     (list :verify (list :considered considered
       :no-user-id no-user-id
       ...)))))
;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling
;;; at translation time.

;;; FIXME: Part of this probably should be in gpg-error!

(define-condition gpgme-error (error)
  ((value :initarg :gpgme-error :reader gpgme-error-value))
  (:report (lambda (c stream)
    (format stream "GPGME returned error: ~A (~A)"
      (gpgme-strerror (gpgme-error-value c))
      (gpgme-strsource (gpgme-error-value c))))
  (:documentation "Signalled when a GPGME function returns an error.")))

(defun translate-gpgme-error-t-from-foreign (value)
  "Raise a GPGME-ERROR if VALUE is non-zero."
  (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
    (error 'gpgme-error :gpgme-error value))
  (gpg-err-canonicalize value))

(defun translate-gpgme-error-t-to-foreign (value)
  "Canonicalize the error value."
  (if (eql (gpgme-err-code value) :gpg-err-no-error)
    0
    (gpg-err-as-value value)))

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
  "Canonicalize the error value."
  (gpg-err-canonicalize value))

;;; *INTERNAL* Lispy Function Interface that is still close to the C
;;; interface.
;;; Passphrase callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar *passphrase-handles* (make-hash-table)
"Hash table with GPGME context address as key and the corresponding
passphrase callback object as value.")

(defun gpgme-set-passphrase-cb (ctx cb)
"Set the passphrase callback for CTX."
(let ((handle (pointer-address ctx)))
(cond
  ((cb) (setf (gethash handle *passphrase-handles*) cb)
    (defcallback passphrase-cb gpgme-error-t ((handle :pointer)
      (uid-hint :string)
      (passphrase-info :string)
      (prev-was-bad :boolean)
      (fd :int))
    (handler-case
      (let* ((passphrase-cb
        (gethash (pointer-address handle) *passphrase-handles*))
        (passphrase
          (cond
            ((functionp passphrase-cb)
              (concatenate 'string
                (funcall passphrase-cb uid-hint passphrase-info
                  prev-was-bad)
                '#(\Newline)))
            (t (concatenate 'string passphrase-cb '#(\Newline))))
        (passphrase-len (length passphrase)))
      ;; FIXME: Could be more robust.
      (res (system-write fd passphrase passphrase-len)))
    (cond
      ((< res passphrase-len) ; FIXME: Blech. A weak attempt to be robust.
        (gpgme-error :gpg-err-inval))
      (t (gpgme-error :gpg-err-no-error)))
    (gpgme-error (err) (gpgme-error-value err))
    (system-error (err) (gpgme-error-from-errno (system-error-errno err)))))
  ;; FIXME: The original error gets lost here.
  (condition (err) (progn
    (when *debug*
      (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%"
        err))
    (gpgme-error :gpg-err-general))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-passphrase-cb (ctx cb)
"Set the passphrase callback for CTX."
(let ((handle (pointer-address ctx)))
  (cond
    (cb (setf (gethash handle *passphrase-handles*) cb))))
;; Progress callback management.

;; Maybe: Instead, use subclassing, and provide a customizable
;; default implementation for ease-of-use.

(defvar *progress-handles* (make-hash-table)
"Hash table with GPGME context address as key and the corresponding
progress callback object as value.")

(defcallback progress-cb :void ((handle :pointer)
(what :string)
(type :int)
(current :int)
(total :int))
(handler-case
  (let* ((progress-cb
    (gethash (pointer-address handle) *progress-handles*)))
    (funcall progress-cb what type current total))
;; FIXME: The original error gets lost here.
  (condition (err) (when *debug*
    (format t "DEBUG: progress-cb: Unexpressable: ~A~%
    err)))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-progress-cb (ctx cb)
"Set the progress callback for CTX."
(let ((handle (pointer-address ctx)))
  (cond
    (cb (setf (gethash handle *progress-handles*) cb)
    (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
    (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer)
      (remhash handle *progress-handles*))))))

;;; Context management.

(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs
  keylist-mode passphrase progress file-name home-dir)
"Allocate a new GPGME context."
(with-foreign-object (ctx-p 'gpgme-ctx-t)
  (c-gpgme-new ctx-p)
  (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
    ;; Set locale?
    (gpgme-set-protocol ctx protocol)
    (gpgme-set-armor ctx armor))
(gpgme-set-textmode ctx textmode)
(when include-certs (gpgme-set-include-certs ctx include-certs))
(when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
(gpgme-set-passphrase-cb ctx passphrase)
(gpgme-set-progress-cb ctx progress)
(gpgme-set-engine-info ctx protocol
 :file-name file-name :home-dir home-dir)
(when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx))
                                   ctx)))

(defun gpgme-release (ctx)
  "Release a GPGME context."
  (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
  (c-gpgme-release ctx))

(defun gpgme-set-protocol (ctx proto)
  "Set the protocol to be used by CTX to PROTO."
  (c-gpgme-set-protocol ctx proto))

(defun gpgme-get-protocol (ctx)
  "Get the protocol used with CTX."
  (c-gpgme-get-protocol ctx))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name

(defun gpgme-set-armor (ctx armor)
  "If ARMOR is true, enable armor mode in CTX, disable it otherwise."
  (c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
  "Return true if armor mode is set for CTX."
  (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
  "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
  (c-gpgme-set-textmode ctx textmode))

(defun gpgme-textmode-p (ctx)
  "Return true if text mode mode is set for CTX."
  (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
  "Include up to CERTS certificates in an S/MIME message."
  (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
"Return the number of certs to include in an S/MIME message, or NIL if the default is used."
(c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
  "Get the keylist mode in CTX."
  (c-gpgme-get-keylist-mode ctx))

(defun gpgme-set-keylist-mode (ctx mode)
  "Set the keylist mode in CTX."
  (c-gpgme-set-keylist-mode ctx mode))

;;; FIXME: How to handle locale?  cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
  "Retrieve the engine info for CTX, or the default if CTX is omitted."
  (cond
   (ctx (c-gpgme-ctx-get-engine-info ctx))
   (t (with-foreign-object (info-p 'gpgme-engine-info-t)
      (c-gpgme-get-engine-info info-p)
      (mem-ref info-p 'gpgme-engine-info-info-p)()))))

(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
  "Set the engine info for CTX, or the default if CTX is NIL."
  (cond
   (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
   (t (c-gpgme-set-engine-info proto file-name home-dir))))

;;; FIXME: How to do pretty printing?

(defun gpgme-set-signers (ctx keys)
  "Set the signers for the context CTX."
  (c-gpgme-signers-clear ctx)
  (dolist (key keys) (c-gpgme-signers-add ctx key)))

;;;

(defun gpgme-set-sig-notation (ctx notations)
  "Set the sig notation for the context CTX."
  (c-gpgme-sig-notation-clear ctx)
  (dolist (notation notations)
    (c-gpgme-sig-notation-add
     ctx (first notation) (second notation) (third notation))))

(defun gpgme-get-sig-notation (ctx)
"Get the signature notation data for the context CTX."
(c-gpgme-sig-notation-get ctx)

;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme_wait?

;;; Streams
;;; -------

;;; GPGME uses standard streams. You can define your own streams, or
;;; use the existing file or string streams.

;;; A stream-spec is either a stream, or a list with a stream as its
;;; first argument followed by keyword parameters: encoding,
;;; file-name.

;;; FIXME: Eventually, we should provide a class that can be mixed
;;; into stream classes and which provides accessors for encoding and
;;; file-names. This interface should be provided in addition to the
;;; above sleazy interface, because the sleazy interface is easier to
;;; use (less typing), and is quite sufficient in a number of cases.

;;; For best results, streams with element type (unsigned-byte 8)
;;; should be used. Character streams may work if armor mode is used.

;;; Do we need to provide access to GPGME data objects through streams
;;; as well? It seems to me that specific optimizations, like
;;; directly writing to file descriptors, is better done by extending
;;; the sleazy syntax (stream-spec) instead of customized streams.
;;; Customized streams do buffering, and this may mess up things. Mmh.

(defvar *data-handles* (make-hash-table)
"Hash table with GPGME data user callback handle address as key
and the corresponding stream as value.")

;;; The release callback removes the stream from the *data-handles*
;;; hash and releases the CBS structure that is used as the key in
;;; that hash. It is implicitly invoked (through GPGME) by
;;; gpgme-data-release.
(defcallback data-release-cb :void ((handle :pointer))
(unwind-protect (remhash (pointer-address handle) *data-handles*)
(when (not (null-pointer-p handle)) (foreign-free handle))))

(defcallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer)
(size size-t))
(when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%" size))
(let ((stream (gethash (pointer-address handle) *data-handles*)))

(cond
(stream
(let* ((stream-type (stream-element-type stream))
    (seq (make-array size :element-type stream-type))
    (read (read-sequence seq stream)))
(cond
  ((equal stream-type '(unsigned-byte 8))
    (dotimes (i read)
      (setf (mem-aref buffer :unsigned-char i)
        (aref (the byte-array seq) i)))))
  ((eql stream-type 'character)
    (dotimes (i read)
      (setf (mem-aref buffer :unsigned-char i)
        (char-code (aref (the character-array seq) i)))))
  (t
    (dotimes (i read)
      (setf (mem-aref buffer :unsigned-char i)
        (coerce (aref seq i) '(unsigned-byte 8))))))
  (when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~%" read))
  (t
    (set-errno +ebadf+)
    -1)))))
(defcallback data-write-cb ssize-t ((handle :pointer) (buffer :pointer)
  (size size-t))
  (when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
  (let ((stream (gethash (pointer-address handle) *data-handles*)))
    (cond
      (stream
        (let* ((stream-type (stream-element-type stream))
          (seq (make-array size :element-type stream-type)))
          (cond
            ((equal stream-type '(unsigned-byte 8))
              (dotimes (i size)
                (setf (aref (the byte-array seq) i)
                  (mem-aref buffer :unsigned-char i)))))
            ((eql stream-type 'character)
              (dotimes (i size)
                (setf (aref (the character-array seq) i)
                  (code-char (mem-aref buffer :unsigned-char i)))))
            (t
              (dotimes (i size)
                (setf (aref i)
                  (coerce (mem-aref buffer :unsigned-char i) stream-type)))))
          (write-sequence seq stream)
          size))
        (t
          (set-errno +ebadf+)
          -1))))

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(set-errno +ebadf+)
-1)))

;; This little helper macro allows us to swallow the cbs structure by
;; simply setting it to a null pointer, but still protect against
;; conditions.
(defun with-cbs-swallowed ((cbs) &body body)
  `(let ((,cbs (foreign-alloc '(:struct gpgme-data-cbs))))
    (unwind-protect (progn ,@body)
      (when (not (null-pointer-p ,cbs)) (foreign-free ,cbs)))))

(defun gpgme-data-new (stream &key encoding file-name)
"Allocate a new GPGME data object for STREAM."
(with-foreign-object (dh-p 'gpgme-data-t)
  ;; We allocate one CBS structure for each stream we wrap in a
  ;; data object. Although we could also share all these
  ;; structures, as they contain the very same callbacks, we need a
  ;; unique C pointer as handle anyway to look up the stream in the
  ;; callback. This is a convenient one to use.
  (with-cbs-swallowed (cbs)
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'read)
      (callback data-read-cb))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'write)
      (callback data-write-cb))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'seek)
      (null-pointer))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'release)
      (callback data-release-cb))
    (c-gpgme-data-new-from-cbs dh-p cbs cbs)
    (let ((dh (mem-ref dh-p 'gpgme-data-t)))
      (when encoding (gpgme-data-set-encoding dh encoding))
      (when file-name (gpgme-data-set-file-name dh file-name))
      ;; Install the stream into the hash table and swallow the cbs
      ;; structure while protecting against any errors.
      (unwind-protect
        (progn
          (setf (gethash (pointer-address cbs) *data-handles*) stream)
          (setf cbs (null-pointer)))
        (when (not (null-pointer-p cbs)) (c-gpgme-data-release dh)))
      (when *debug* (format t "DEBUG: gpgme-data-new: ~A~%" dh))
      (c-gpgme-data-release dh))))

;; This function releases a GPGME data object. It implicitly
;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)
"Release a GPGME data object."
(when *debug* (format t "DEBUG: gpgme-data-release: ~A~%" dh))
(c-gpgme-data-release dh))
(defclass data ()
  (c-data) ; The C data object pointer
  (:documentation "The GPGME data type."))

(defmethod initialize-instance :after ((data data) &key streamspec
    &allow-other-keys)
  (let ((c-data (if (listp streamspec)
      (apply #'gpgme-data-new streamspec)
      (gpgme-data-new streamspec)))
    (cleanup t))
    (unwind-protect
      (progn
        (setf (slot-value data 'c-data) c-data)
        (finalize data (lambda () (gpgme-data-release c-data)))
        (setf cleanup nil))
    (if cleanup (gpgme-data-release c-data))))

(defun translate-gpgme-data-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (cond ((null value) (null-pointer))
      ((pointerp value) value)
      (t (slot-value value 'c-data))))

(defmacro with-gpgme-data ((dh streamspec) &body body)
  `(let ((,dh (make-instance 'data :streamspec ,streamspec)))
      ,@body))

(defun gpgme-data-get-encoding (dh)
  "Get the encoding associated with the data object DH."
  (c-gpgme-data-get-encoding dh))

(defun gpgme-data-set-encoding (dh encoding)
  "Set the encoding associated with the data object DH to ENCODING."
  (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
  "Get the file name associated with the data object DH."
  (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
  "Set the file name associated with the data object DH to FILE-NAME."
  (c-gpgme-data-set-file-name dh file-name))

;;;; FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
"Get the key with the fingerprint FPR from the context CTX."
(with-foreign-object (key-p 'gpgme-key-t)
  (c-gpgme-get-key ctx fpr key-p secret)
  (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
  "Acquire an additional reference to the key KEY."
  (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))
  (c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
  "Release a reference to the key KEY."
  (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
  (c-gpgme-key-unref key))

;;; FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.

;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
  (c-gpgme-check-version req-version))

;;;
;;; The *EXPORTED* CLOS interface.

;;;

;;; The context type.

;;; We wrap the C context pointer into a class object to be able to
;;; stick a finalizer on it.

(defun initialize-instance :after ((ctx context) &rest rest
  &key &allow-other-keys)
  (let ((c-ctx (apply #'gpgme-new rest))
        (cleanup t))
    (unwind-protect
      (progn
        (setf (slot-value ctx 'c-ctx) c-ctx)
        (finalize ctx (lambda () (gpgme-release c-ctx)))
        (setf cleanup nil))
      (if cleanup (gpgme-release c-ctx))))
(defun translate-gpgme-ctx-t-to-foreign (value)
;; Allow a pointer to be passed directly for the finalizer to work.
(if (pointerp value) value (slot-value value 'c-ctx)))

(defmacro context (&rest rest)
  "Create a new GPGME context."
  `(make-instance 'context ,@rest))

;;; The context type: Accessor functions.

;;; The context type: Accessor functions: Protocol.

(defun protocol (ctx))
  (:documentation "Get the protocol of CONTEXT.")

(defun protocol ((ctx context))
  (gpgme-get-protocol ctx))

(defun (setf protocol) (protocol ctx))
  (:documentation "Set the protocol of CONTEXT to PROTOCOL.")

;;; FIXME: Adjust translator to reject invalid protocols. Currently,
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"
;;; error. This is suboptimal.
(defun (setf protocol) (protocol (ctx context))
  (gpgme-set-protocol ctx protocol))

;;; The context type: Accessor functions: Armor.
;;; FIXME: Is it good style to make foop setf-able? Or should it be
;;; foo/foop for set/get?

(defun armorp (ctx))
  (:documentation "Get the armor flag of CONTEXT.")

(defun armorp ((ctx context))
  (gpgme-armor-p ctx))

(defun (setf armorp) (armor ctx))
  (:documentation "Set the armor flag of CONTEXT to ARMOR.")

(defun (setf armorp) (armor (ctx context))
  (gpgme-set-armor ctx armor))

;;; The context type: Accessor functions: Textmode.
;;; FIXME: Is it good style to make foop setf-able? Or should it be
;;; foo/foop for set/get?

(defun textmodep (ctx))
(defmethod textmodep ((ctx context))
  (gpgme-textmode-p ctx))

(defun (setf textmodep) (textmode ctx)
  (:documentation "Set the text mode flag of CONTEXT to TEXTMODE.")
)

(defmethod (setf textmodep) (textmode (ctx context))
  (gpgme-set-textmode ctx textmode))

;;; The context type: Accessor functions: Include Certs.

(defun include-certs (ctx)
  (:documentation "Get the number of included certificates in an
      S/MIME message, or NIL if the default is used.")
)

(defun include-certs ((ctx context))
  (gpgme-get-include-certs ctx))

(defun (setf include-certs) (certs ctx)
  (:documentation "Return the number of certificates to include in an
      S/MIME message, or NIL if the default is used.")
)

(defun (setf include-certs) (certs (ctx context))
  (gpgme-set-include-certs ctx certs))

;;; The context type: Accessor functions: Engine info.

(defun engine-info (ctx)
  (:documentation "Retrieve the engine info for CTX.")
)

(defun engine-info ((ctx context))
  (gpgme-get-engine-info ctx))

(defun (setf engine-info) (info ctx)
  (:documentation "Set the engine info for CTX.")
)

(defun (setf engine-info) (info (ctx context))
  (dolist (proto '(:openpgp :cms))
    (let ((pinfo (getf info proto)))
      (when pinfo
        (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
          :home-dir (getf pinfo :home-dir)))))

;;; The context type: Accessor functions: Keylist mode.

(defun keylist-mode (ctx)
  (:documentation "")
)
(defmethod keylist-mode ((ctx context))
  (gpgme-get-keylist-mode ctx))

(defgeneric (setf keylist-mode) (mode ctx)
  (:documentation "Set the keylist mode of CTX to MODE."))

(defmethod (setf keylist-mode) (mode (ctx context))
  (gpgme-set-keylist-mode ctx mode))

;;; The context type: Accessor functions: Signers.

(defgeneric signers (ctx)
  (:documentation "Get the signers of CTX."))

(defmethod signers ((ctx context))
  (slot-value ctx 'signers))

(defgeneric (setf signers) (signers ctx)
  (:documentation "Set the signers of CTX to SIGNERS."))

(defmethod (setf signers) (signers (ctx context))
  (gpgme-set-signers ctx signers)
  (setf (slot-value ctx 'signers) signers))

;;; The context type: Accessor functions: Sig notations.

(defgeneric sig-notations (ctx)
  (:documentation "Get the signature notations of CTX."))

(defmethod sig-notations ((ctx context))
  (slot-value ctx 'signers))

(defgeneric (setf sig-notations) (notations ctx)
  (:documentation "Set the signature notations of CTX to NOTATIONS."))

(defmethod (setf sig-notations) (notations (ctx context))
  (gpgme-set-signers ctx notations)
  (setf (slot-value ctx 'notations) notations))

;;; The context type: Support macros.

(defmacro with-context ((ctx &rest rest) &body body)
  `(let ((,ctx (make-instance 'context ,@rest)))
    ,@body))

;;; The key type.
(defclass key ()
  (c-key) ; The C key object pointer.
  (:documentation "The GPGME key type.\n"))

;;; In the initializer, we swallow the c-key argument.
(defun initialize-instance :after ((key key) &key c-key
  &allow-other-keys)
  (setf (slot-value key 'c-key) c-key)
  (finalize key (lambda () (gpgme-key-unref c-key))))

(defun translate-gpgme-key-t-from-foreign (value)
  (when *debug* (format t "DEBUG: import key: ~A~%" value))
  (make-instance 'key :c-key value))

(defun translate-gpgme-key-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-key))))

(defun translate-gpgme-sig-notation-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
      ((next name value name-len value-len flags bitfield)
        value (:struct gpgme-sig-notation))
      (append (list (list
        :name name
        :value value
        :name-len name-len
        :value-len value-len
        :flags flags
        :bitfield bitfield))
        next)))))

;;; FIXME: Deal nicer with timestamps. bitfield field name?
(defun translate-gpgme-subkey-t-from-foreign (value)
  (cond
    ;;: FIXME: The bitfield and flags contain redundant information at
    ;;: this point. FIXME: Deal nicer with zero-length name (policy url)
    ;;: and zero length value (omit?) and human-readable (convert to string).
    ;;: FIXME: Turn binary data into sequence or vector or what it should be.
    ;;: FIXME: Turn the whole thing into a hash?
    (t (with-foreign-slots
      ((next name value name-len value-len flags bitfield)
        value (:struct gpgme-sig-notation))
      (append (list (list
        :name name
        :value value
        :name-len name-len
        :value-len value-len
        :flags flags
        :bitfield bitfield))
        next)))))

(defun translate-gpgme-subkey-t-to-foreign (value)
  ;; Allow a pointer to be passed directly for the finalizer to work.
  (if (pointerp value) value (slot-value value 'c-key))

(defun print-object ((key key) stream)
  (print-unreadable-object (key stream :type t :identity t)
    (format stream "~s" (fpr key))))
((null-pointer-p value) nil)
(t (with-foreign-slots
  ((next bitfield pubkey-algo length keyid fpr timestamp expires)
   value (:struct gpgme-subkey))
  (append (list (list
         :bitfield bitfield
         :pubkey-algo pubkey-algo
         :length length
         :keyid keyid
         :fpr fpr
         :timestamp timestamp
         :expires expires))
          next))))

(defun translate-gpgme-key-sig-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
         ((next bitfield pubkey-algo keyid timestamp expires status
            uid name email comment sig-class)
          value (:struct gpgme-key-sig))
         (append (list (list
                 :bitfield bitfield
                 :pubkey-algo pubkey-algo
                 :keyid keyid
                 :timestamp timestamp
                 :expires expires
                 :status status
                 :uid uid
                 :name name
                 :email email
                 :comment comment
                 :sig-class sig-class))
          next))))

(defun translate-gpgme-user-id-t-from-foreign (value)
  (cond
    ((null-pointer-p value) nil)
    (t (with-foreign-slots
         ((next bitfield validity uid name email comment signatures)
          value (:struct gpgme-user-id))
         (append (list (list
                 :bitfield bitfield
                 :validity validity
                 :uid uid
                 :name name
                 :email email
                 :comment comment
                 :signatures signatures))
          next))))
(defun key-data (key)
  (with-slots (c-key) key
    (with-foreign-slots
      ((bitfield protocol issuer-serial issuer-name chain-id
                    owner-trust subkeys uids keylist-mode)
       c-key (:struct gpgme-key))
      (list
       :bitfield bitfield
       :protocol protocol
       :issuer-serial issuer-serial
       :issuer-name issuer-name
       :chain-id chain-id
       :owner-trust owner-trust
       :subkeys subkeys
       :uids uids
       :keylist-mode keylist-mode))
    ))

(defun fpr (key)
  (:documentation "Get the primary fingerprint of the key.")

(defmethod fpr ((key key))
  (getf (car (getf (key-data key) :subkeys)) :fpr))

;;; The context type: Crypto-Operations.

(defun get-key (ctx fpr &optional secret)
  (:documentation "Get the (secret) key FPR from CTX.")

(defmethod get-key ((ctx context) fpr &optional secret)
  (gpgme-get-key ctx fpr secret))

;;; Encrypt.

(defun op-encrypt (ctx recp plain cipher &key always-trust sign)
  (:documentation "Encrypt.")

(defmethod op-encrypt ((ctx context) recp plain cipher
                        &key always-trust sign)
  (with-foreign-object (c-recp :pointer (+ 1 (length recp)))
    (dotimes (i (length recp))
      (setf (mem-aref c-recp 'gpgme-key-t i) (elt recp i)))
    (setf (mem-aref c-recp :pointer (length recp)) (null-pointer)))
;; Decrypt.
(defgeneric op-decrypt (ctx cipher plain &key verify)
  (:documentation "Decrypt."
  (with-gpgme-data (in cipher)
    (with-gpgme-data (out plain)
      (cond
        (verify
          (c-gpgme-op-decrypt-verify ctx in out)
          (append (c-gpgme-op-decrypt-result ctx))
          (c-gpgme-op-verify-result ctx)))
        (t
          (c-gpgme-op-decrypt ctx in out)
          (c-gpgme-op-decrypt-result ctx))))))

;; Signing.
(defgeneric op-sign (ctx plain sig &optional mode)
  (:documentation "Sign."
  (defmethod op-sign ((ctx context) plain sig &optional (mode :none))
    (with-gpgme-data (in plain)
      (with-gpgme-data (out sig)
        (c-gpgme-op-sign ctx in out mode)
        (c-gpgme-op-sign-result ctx))))))

;; Verify.
(defgeneric op-verify (ctx sig text &key detached)
  (:documentation "Verify.
  (defmethod op-verify ((ctx context) sig text &key detached)
    (with-gpgme-data (in sig)
;; Import.

(defun check-version (&optional req-version)
  "Check that the GPGME version requirement is satisfied."
  (gpgme-check-version req-version))

(defun op-import (&optional (ctx context) keydata)
  "Import."
  (with-gpgme-data (in keydata)
    (c-gpgme-op-import ctx in)
    (c-gpgme-op-import-result ctx))))

(defvar *version* (check-version)
  "The version number of GPGME used."

(defun op-export (&optional (ctx context) pattern keydata)
  "Export public key data matching PATTERN to the stream KEYDATA."
  (with-gpgme-data (dh keydata)
    (c-gpgme-op-export ctx pattern 0 dh)))

(defvar *version* (check-version)
  "The version number of GPGME used.")
import cython
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

if cython.compiled is True:
    cc = "Powered by Cython compiled C code."
else:
    cc = "Powered by Python."

print("{}
    Number of secret keys: {0}
    Number of public keys: {1}
{}
{}".format(secnum, pubnum, cc))

This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.

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* Overview

| Version:       | 0.0.1                    |
| GPGME Version: | 1.13.0                   |
| Author:        | Ben McGinnes <ben@gnupg.org> |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:      | Australian English, British English |
| xml:lang:      | en-AU, en-GB, en          |

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

** In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.[fn:1] Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

** Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's
whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

** Passing the torch

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

** Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of =pyme3=.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The =pyme3= module was renamed to =gpg= and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

* Relics of the past
There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

** The Annoyances of Git

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the lang directory, along with a copy of the entire git log up to that point as a separate file within the lang/python/docs/ directory. As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

** The Perils of PyPI

The early port of the Python 2 pyme module as pyme3 was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from pyme3 to gpg, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:
1. gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. pyme (0.9.0) - Python support for GPGME GnuPG cryptography library

*** GPG 180 - Python bindings for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-180
:END:

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and only 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

*** PyME 090 - Python support for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-90
:END:

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are located in the =gpgme/lang/python/docs/old-commits.log= file.
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>

* gpgme.lisp (size-t): Wrong call to defctype: function accepts
  optional, not keyword argument.
  (ssize-t): Likewise.
  (off-t): Likewise.
  (gpgme-data-t, gpgme-ctx-t): Likewise.
  (gpgme-error-t): Likewise.
  (gpgme-error-no-signal-t): Likewise.
  (gpgme-err-code-t): Likewise.
  (gpgme-err-source-t): Likewise.
  (gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.
  (gpgme-subkey-t): Likewise.
  (gpgme-key-sig-t): Likewise.
  (gpgme-user-id-t): Likewise.
  (gpgme-key-t): Likewise.
  (gpgme-data-cbs-t): Likewise.
  (gpgme-invalid-key-t): Likewise.
  (gpgme-op-encrypt-result-t): Likewise.
  (gpgme-recipient-t): Likewise.
  (gpgme-op-decrypt-result-t): Likewise.
  (gpgme-new-signature-t): Likewise.
  (gpgme-op-sign-result-t): Likewise.
  (gpgme-signature-t): Likewise.
  (gpgme-op-verify-result-t): Likewise.
  (gpgme-import-status-t): Likewise.
  (gpgme-op-import-result-t): Likewise.
  (gpgme-op-genkey-result-t): Likewise.
  (gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* Initial release.

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unlimited permission to copy and/or distribute it, with or without
modifications, as long as this notice is preserved.

This file is distributed in the hope that it will be useful, but
* How to contribute

** No more ChangeLog files

Do not modify any of the ChangeLog files in GPGME. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist" time. As such, there are strict requirements on the form of the commit log messages. The old ChangeLog files have all be renamed to ChangeLog-2011

** Commit log requirements

Your commit log should always start with a one-line summary, the second line should be blank, and the remaining lines are usually ChangeLog-style entries for all affected files. However, it's fine -- even recommended -- to write a few lines of prose describing the change, when the summary and ChangeLog entries don't give enough of the big picture. Omit the leading TABs that you're used to seeing in a "real" ChangeLog file, but keep the maximum line length at 72 or smaller, so that the generated ChangeLog lines, each with its leading TAB, will not exceed 80 columns. If you want to add text which shall not be copied to the ChangeLog, separate it by a line consisting of two dashes at the begin of a line.

Note that ./autogen.sh installs a git hook to do some basic syntax checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry; thus you would use a commit message like

#+begin_example
Fix typo in a comment

--
#+end_example

The marker line here is important; without it the first line would appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may do this after this scissor line:
**License policy**

GPGME is currently licensed under the LGPLv2.1+ with tools and the manual being under the GPLv3+. We may eventually update to a newer version of the licenses or a combination of them. It is thus important, that all contributed code allows for an update of the license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are asked to assert that the contribution is in accordance to the "GPGME Developer's Certificate of Origin" as found in the file "DCO". Except for a slight wording change, this DCO is identical to the one used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real name in the address and not a pseudonym. Anonymous contributions can only be done if you find a proxy who certifies for you.

- If your employer or school might claim ownership of code written by you; you need to talk to them to make sure that you have the right to contribute under the DCO.

- Send an OpenPGP signed mail to the gnupg-devel@gnupg.org public mailing list from your mail address. Include a copy of the DCO as found in the official master branch. Insert your name and email address into the DCO in the same way you want to use it later. Example:

  Signed-off-by: Joe R. Hacker <joe@example.org>

If you need it, you may perform simple transformations on the mail address: Replacing "@" by " at " or "." by " dot ".

- That's it. From now on you only need to add a "Signed-off-by:" line with your name and mail address to the GIT commit message. It is recommended to send the patches using a PGP/MIME signed mail.

**Coding standards**

Please follow the GNU coding standards. If you are in doubt consult
the existing code as an example. Do no re-indent code without a need. If you really need to do it, use a separate commit for such a change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ \texttt{==/!=} style comments.
- Try to fit lines into 80 columns.
- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to char* first.

** Commit log keywords

- GnuPG-bug-id :: Values are comma or space delimited bug numbers from bug.gnupg.org pertaining to this commit.
- Debian-bug-id :: Same as above but from the Debian bug tracker.
- CVE-id :: CVE id number pertaining to this commit.
- Regression-due-to :: Commit id of the regression fixed by this commit.
- Fixes-commit :: Commit id this commit fixes.
- Reported-by :: Value is a name or mail address of a bug reporte.
- Suggested-by :: Value is a name or mail address of someone how suggested this change.
- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME_DEBUG enables debugging; see debug.[ch] for details.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>
* libassuan.m4: Fix LIBASSUAN_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Fix code generation (required for Max OS X).
  Submitted by Emanuele Giaquinta <exg@gentoo.org>.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* glib-2.0.m4: New file.

2004-12-28 Werner Koch <wk@g10code.com>

* pth.m4: Changed quoting for use with automake 1.9.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Disable _ac_pth_line, and don't fail if Pth is not found.

* gpg-error.m4: New file.
* pth.m4: New file.


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This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. Configuration files may go here. Note that config.h.in is auto-generated so that this file is not in git.

GPGME Developer's Certificate of Origin. Version 1.0
====================================================
By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the free software license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate free software license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same free software license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the free software license(s) involved.

Signed-off-by: [Your name and mail address]
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What's New

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* New in GPGME 1120:

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* Python bindings:
* Difference between the Python bindings and other GnuPG Python packages:

Difference between the Python bindings and other GnuPG Python packages

* The python-gnupg package maintained by Vinay Sajip:
* The gnupg package created and maintained by Isis Lovecraft:
* The PyME package maintained by Martin Albrecht:

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Keyserver access for Python

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Copyright and Licensing

* Copyright::
This document provides basic instruction in how to use the GPGME Python bindings to programmatically leverage the GPGME library.

Though the GPGME Python bindings themselves provide support for both Python 2 and 3, the focus is unequivocally on Python 3 and specifically from Python 3.4 and above. As a consequence all the examples and instructions in this guide use Python 3 code.

Much of it will work with Python 2, but much of it also deals with Python 3 byte literals, particularly when reading and writing data. Developers concentrating on Python 2.7, and possibly even 2.6, will need to make the appropriate modifications to support the older string and unicode types as opposed to bytes.
There are multiple reasons for concentrating on Python 3; some of which relate to the immediate integration of these bindings, some of which relate to longer term plans for both GPGME and the python bindings and some of which relate to the impending EOL period for Python 2.7. Essentially, though, there is little value in tying the bindings to a version of the language which is a dead end and the advantages offered by Python 3 over Python 2 make handling the data types with which GPGME deals considerably easier.

@node Examples
@section Examples

All of the examples found in this document can be found as Python 3 scripts in the @samp{lang/python/examples/howto} directory.

@node Unofficial Drafts
@section Unofficial Drafts

In addition to shipping with each release of GPGME, there is a section on locations to read or download @ref[Draft Editions of this HOWTO, , draft editions] of this document from at the end of it. These are unofficial versions produced in between major releases.

@node What's New
@section What's New

Full details of what is new are now available in the @uref{what-is-new.org, What's New} file and archives of the preceding @emph{What's New} sections are available in the @uref{what-was-new, What Was New} file.

@menu
* New in GPGME 1130::
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@end menu

@node New in GPGME 1130
@subsection New in GPGME 1130

See the @uref{what-is-new#new-stuff-1-13-0, What's New} document for what is new in version 1.13.0.

@node New in GPGME 1120
@subsection New in GPGME 1120

See the @uref{what-was-new#new-stuff-1-12-0, What Was New} document for what was new in version 1.12.0.

@node GPGME Concepts
@chapter GPGME Concepts
Unlike many modern APIs with which programmers will be more familiar with these days, the GPGME API is a C API. The API is intended for use by C coders who would be able to access its features by including the `gpgme.h` header file with their own C source code and then access its functions just as they would any other C headers.

This is a very effective method of gaining complete access to the API and in the most efficient manner possible. It does, however, have the drawback that it cannot be directly used by other languages without some means of providing an interface to those languages. This is where the need for bindings in various languages stems.

The Python bindings for GPGME provide a higher level means of accessing the complete feature set of GPGME itself. It also provides a more pythonic means of calling these API functions.

The bindings are generated dynamically with SWIG and the copy of `gpgme.h` generated when GPGME is compiled.

This means that a version of the Python bindings is fundamentally tied to the exact same version of GPGME used to generate that copy of `gpgme.h`.

There have been numerous attempts to add GnuPG support to Python over the years. Some of the most well known are listed here, along with what differentiates them.
This is arguably the most popular means of integrating GPG with Python. The package utilises the `subprocess` module to implement wrappers for the `gpg` and `gpg2` executables normally invoked on the command line (`gpg.exe` and `gpg2.exe` on Windows).

The popularity of this package stemmed from its ease of use and capability in providing the most commonly required features.

Unfortunately it has been beset by a number of security issues in the past; most of which stemmed from using unsafe methods of accessing the command line via the `subprocess` calls. While some effort has been made over the last two to three years (as of 2018) to mitigate this, particularly by no longer providing shell access through those subprocess calls, the wrapper is still somewhat limited in the scope of its GnuPG features coverage.

The python-gnupg package is available under the MIT license.

In 2015 Isis Lovecruft from the Tor Project forked and then re-implemented the python-gnupg package as just gnupg. This new package also relied on subprocess to call the `gpg` or `gpg2` binaries, but did so somewhat more securely.

The naming and version numbering selected for this package, however, resulted in conflicts with the original python-gnupg and since its functions were called in a different manner to python-gnupg, the release of this package also resulted in a great deal of consternation when people installed what they thought was an upgrade that subsequently broke the code relying on it.

The gnupg package is available under the GNU General Public License version 3.0 (or any later version).

This package is the origin of these bindings, though they are somewhat different now. For details of when and how the PyME package was folded back into GPGME itself see the `short-history.org, Short History` document.

The PyME package was first released in 2002 and was also the first...
attempt to implement a low level binding to GPGME. In doing so it provided access to considerably more functionality than either the `python-gnupg` or `gnupg` packages.

The PyME package is only available for Python 2.6 and 2.7.

Porting the PyME package to Python 3.4 in 2015 is what resulted in it being folded into the GPGME project and the current bindings are the end result of that effort.

The PyME package is available under the same dual licensing as GPGME itself: the GNU General Public License version 2.0 (or any later version) and the GNU Lesser General Public License version 2.1 (or any later version).

@node GPGME Python bindings installation
@section GPGME Python bindings installation

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  * Requirements::
  * Installation::
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@end menu

@node No PyPI
@section No PyPI

Most third-party Python packages and modules are available and distributed through the Python Package Installer, known as PyPI.

Due to the nature of what these bindings are and how they work, it is infeasible to install the GPGME Python bindings in the same way.

This is because the bindings use SWIG to dynamically generate C bindings against `gpgme.h` and `gpgme.h` is generated from `gpgme.h.in` at compile time when GPGME is built from source. Thus to include a package in PyPI which actually built correctly would require either statically built libraries for every architecture bundled with it or a full implementation of C for each architecture.

See the additional notes regarding `CFFI is the Best and GPGME should use it instead of SWIG`, `CFFI and SWIG` at the end of this section for further details.

@node Requirements
@section Requirements
The GPGME Python bindings only have three requirements:

- A suitable version of Python 2 or Python 3. With Python 2 that means CPython 2.7 and with Python 3 that means CPython 3.4 or higher.
- SWIG.
- GPGME itself. Which also means that all of GPGME's dependencies must be installed too.

* Recommended Additions:

Though none of the following are absolute requirements, they are all recommended for use with the Python bindings. In some cases these recommendations refer to which version(s) of CPython to use the bindings with, while others refer to third party modules which provide a significant advantage in some way.

- If possible, use Python 3 instead of 2.
- Favour a more recent version of Python since even 3.4 is due to reach EOL soon. In production systems and services, Python 3.6 should be robust enough to be relied on.
- If possible add the following Python modules which are not part of the standard library: Requests, Cython, Pendulum and hkp4py.

Chances are quite high that at least the first one and maybe two of those will already be installed.

Note that, as with Cython, some of advanced use case scenarios will bring with them additional requirements. Most of these will be fairly well known and commonly installed ones, however, which are in many cases likely to have already been installed on many systems or be
familiar to Python programmers.

@node Installation
@section Installation

Installing the Python bindings is effectively achieved by compiling and installing GPGME itself.

Once SWIG is installed with Python and all the dependencies for GPGME are installed you only need to confirm that the version(s) of Python you want the bindings installed for are in your @samp{$PATH}$.

By default GPGME will attempt to install the bindings for the most recent or highest version number of Python 2 and Python 3 it detects in @samp{$PATH}$.

It specifically checks for the @samp{python} and @samp{python3} executables first and then checks for specific version numbers.

For Python 2 it checks for these executables in this order: @samp{python}, @samp{python2} and @samp{python2.7}.

For Python 3 it checks for these executables in this order: @samp{python3}, @samp{python3.7}, @samp{python3.6}, @samp{python3.5} and @samp{python3.4}.@footnote{With no issues reported specific to Python 3.7, the release of Python 3.7.1 at around the same time as GPGME 1.12.0 and the testing with Python 3.7.1rc1, there is no reason to delay moving 3.7 ahead of 3.6 now. Production environments with more conservative requirements will always enforce their own policies anyway and installation to each supported minor release is quite possible too.}

On systems where @samp{python} is actually @samp{python3} and not @samp{python2} it may be possible that @samp{python2} may be overlooked, but there have been no reports of that actually occurring as yet.

In the three months or so since the release of Python 3.7.0 there has been extensive testing and work with these bindings with no issues specifically relating to the new version of Python or any of the new features of either the language or the bindings. This has also been the case with Python 3.7.1rc1. With that in mind and given the release of Python 3.7.1 is scheduled for around the same time as GPGME 1.12.0, the order of preferred Python versions has been changed to move Python 3.7 ahead of Python 3.6.

@menu
* Installing GPGME::
@end menu

@node Installing GPGME
@subsection Installing GPGME
See the GPGME @samp{README} file for details of how to install GPGME from source.

@node Known Issues
@section Known Issues

There are a few known issues with the current build process and the Python bindings. For the most part these are easily addressed should they be encountered.

@node Breaking Builds
@subsection Breaking Builds

Occasionally when installing GPGME with the Python bindings included it may be observed that the @samp{make} portion of that process induces a large very number of warnings and, eventually errors which end that part of the build process. Yet following that with @samp{make check} and @samp{make install} appears to work seamlessly.

The cause of this is related to the way SWIG needs to be called to dynamically generate the C bindings for GPGME in the first place. So the entire process will always produce @samp{lang/python/python2-gpg/} and @samp{lang/python/python3-gpg/} directories. These should contain the build output generated during compilation, including the complete bindings and module installed into @samp{site-packages}.

Occasionally the errors in the early part or some other conflict (e.g. not installing as @strong[@emph{root}] or @strong[@emph{su}]) may result in nothing being installed to the relevant @samp{site-packages} directory and the build directory missing a lot of expected files. Even when this occurs, the solution is actually quite simple and will always work.

That solution is simply to run the following commands as either the @strong[root] user or prepended with @samp{sudo -H} @footnote{Yes, even if you use virtualenv with everything you do in Python. If you want to install this module as just your user account then you will need to manually configure, compile and install the}
@emph{entire} GnuPG stack as that user as well. This includes libraries which are not often installed that way. It can be done and there are circumstances under which it is worthwhile, but generally only on POSIX systems which utilise single user mode (some even require it.) in the @samp{lang/python/} directory:

@example
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py build
/path/to/pythonX.Y setup.py install
@end example

Yes, the build command does need to be run twice. Yes, you still need to run the potentially failing or incomplete steps during the @samp{configure}, @samp{make} and @samp{make install} steps with installing GPGME. This is because those steps generate a lot of essential files needed, both by and in order to create, the bindings (including both the @samp{setup.py} and @samp{gpgme.h} files).

@enumerate
@item
IMPORMALT Note
If specifying a selected number of languages to create bindings for, try to leave Python last. Currently the majority of the other language bindings are also preceding Python of either version when listed alphabetically (not counting the Qt bindings).

If Python is set to precede one of the other languages then it is possible that the errors described here may interrupt the build process before generating bindings for those other languages. In these cases it may be preferable to configure all preferred language bindings separately with alternative @samp{configure} steps for GPGME using the @samp{--enable-languages=$LANGUAGE} option.

Alternatively @samp{make} (or @samp{gmake}, depending on your platform) may be run with the the @samp{-k} option, which tells make to keep going even if errors are encountered. In that case the failure of one language's set of bindings to build should not hamper another language's bindings to build.
@end enumerate

@node Reinstalling Responsibly
@subsection Reinstalling Responsibly
Regardless of whether you're installing for one version of Python or several, there will come a point where reinstallation is required.
With most Python module installations, the installed files go into the relevant site-packages directory and are then forgotten about. Then the module is upgraded, the new files are copied over the old and that's the end of the matter.

While the same is true of these bindings, there have been intermittent issues observed on some platforms which have benefited significantly from removing all the previous installations of the bindings before installing the updated versions.

Removing the previous version(s) is simply a matter of changing to the relevant `site-packages` directory for the version of Python in question and removing the `gpg/` directory and any accompanying egg-info files for that module.

In most cases this will require root or administration privileges on the system, but the same is true of installing the module in the first place.

@node Multiple installations
@subsection Multiple installations

For a variety of reasons it may be either necessary or just preferable to install the bindings to alternative installed Python versions which meet the requirements of these bindings.

On POSIX systems this will generally be most simply achieved by running the manual installation commands (build, build, install) as described in the previous section for each Python installation the bindings need to be installed to.

As per the SWIG documentation: the compilers, libraries and runtime used to build GPGME and the Python Bindings must match those used to compile Python itself, including the version number(s) (at least going by major version numbers and probably minor numbers too).

On most POSIX systems, including OS X, this will very likely be the case in most, if not all, cases.

Note that from GPGME the default installation installs to each version of Python it can find first. That is that it will currently install for the first copies of Python versions 2.7, 3.4, 3.5, 3.6, 3.7 and 3.8 (dev branch) that it finds. Usually this will be in the same prefix as GPGME itself, but is dictated by the `$PATH` when the installation is performed. The above instructions can still be performed on other python installations which the installer does not find, including alternative prefixes.
There are semi-regular reports of Windows users having considerable difficulty in installing and using the Python bindings at all. Very often, possibly even always, these reports come from Cygwin users and/or MinGW users and/or Msys2 users. Though not all of them have been confirmed, it appears that these reports have also come from people who installed Python using the Windows installer files from the [Python website](https://python.org) (i.e. mostly MSI installers, sometimes self-extracting `.exe` files).

The Windows versions of Python are not built using Cygwin, MinGW or Msys2; they're built using Microsoft Visual Studio. Furthermore the version used is considerably more advanced than the version which MinGW obtained a small number of files from many years ago in order to be able to compile anything at all. Not only that, but there are changes to the version of Visual Studio between some micro releases, though that is is particularly the case with Python 2.7, since it has been kept around far longer than it should have been.

There are two theoretical solutions to this issue:

- Compile and install the GnuPG stack, including GPGME and the Python bindings using the same version of Microsoft Visual Studio used by the Python Foundation to compile the version of Python installed.
  
  If there are multiple versions of Python then this will need to be done with each different version of Visual Studio used for those versions of Python.

- Compile and install Python using the same tools used by choice, such as MinGW or Msys2.

Do not use the official Windows installer for Python unless following the first method.

In this type of situation it may even be for the best to accept that there are less limitations on permissive software than free software and simply opt to use a recent version of the Community Edition of Microsoft Visual Studio to compile and build all of it, no matter what.
Investigations into the extent or the limitations of this issue are ongoing.

The following table lists the version of Microsoft Visual Studio which needs to be used when compiling GPGME and the Python bindings with each version of the CPython binary released [for Windows]:

@multitable
<table>
<thead>
<tr>
<th>CPython</th>
<th>Microsoft product name</th>
<th>runtime filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7.6</td>
<td>Visual Studio 2008</td>
<td>MSVCR90.DLL</td>
</tr>
<tr>
<td>3.4.0</td>
<td>Visual Studio 2010</td>
<td>MSVCR100.DLL</td>
</tr>
<tr>
<td>3.5.0</td>
<td>Visual Studio 2015</td>
<td>@strong{see below}</td>
</tr>
<tr>
<td>3.6.0</td>
<td>Visual Studio 2015</td>
<td>@strong{see below}</td>
</tr>
<tr>
<td>3.7.0</td>
<td>Visual Studio 2017*</td>
<td>@strong{see below}</td>
</tr>
</tbody>
</table>
@end multitable

It is important to note that MingW and Msys2 ship with the Visual C runtime from Microsoft Visual Studio 2005 and are thus @strong{incompatible} with all the versions of CPython which can be used with the GPGME Python bindings.

It is also important to note that from CPython 3.5 onwards, the Python Foundation has adopted the reworking of the Visual C runtime which was performed for Visual Studio 2015 and aimed at resolving many of these kinds of issues. Much greater detail on these issues and the correct file(s) to link to are available from Matthew Brett's invaluable page, [Using Microsoft Visual C with Python]. It is also worth reading the Microsoft Developer Network blog post on [the universal CRT] and Steve Dower's blog posts on Python extensions ([part 1] and [part 2]).

The second of those two posts by Steve Dower contains the details of specific configuration options required for compiling anything to be
used with official CPython releases. In addition to those configuration and compiler settings to use, the versions of Visual Studio prior to Visual Studio 2015 did not support 64-bit systems by default. So compiling a 64-bit version of these bindings for a 64-bit version of CPython 2.7 or 3.4 requires additional work.

In addition to the blog posts, the [https://wiki.python.org/moin/WindowsCompilers, Windows compilers] wiki page on the CPython wiki is another essential reference on the relevant versions of Visual Studio to use and the degree of compatibility with CPython releases.

Eventually someone will ask why there isn't an installable binary for Windows, which the GPGME of the licenses do not preclude as long as the source code is available in conjunction with such a release.

The sheer number of versions of Visual Studio in conjunction with differing configuration options depending on the target Windows version and whether the architecture is 64-bit or 32-bit makes it difficult to provide a correct binary installer for Windows users. At the bare minimum doing so would require the GnuPG project compile ten different versions of the bindings with each release; both 32-bit and 64-bit versions for CPython 2.7 and 3.4, with 64-bit versions for both x86-64 (i.e. Intel and AMD) and ARM architectures for CPython 3.5, 3.6, 3.7 and later releases. That's the bare minimum, it'd probably be higher.

Additionally, with only a binary installation used in conjunction with the CPython installer from [python.org] the advanced options available which utilise [C plus Python plus SWIG plus Cython, Cython] will not be able to be used at all. Cython depends on being able to compile the C code it generates and that too would need to utilise a matching runtime to both the installed version of CPython and these bindings in order to work with the bindings.

Considering all of that, what do we recommend?

@enumerate
@item
Use a recent version of CPython; at least 3.5, but ideally 3.6 or later.

@item
Use Visual Studio 2015 or the standalone build tools for Visual Studio 2017 (or later).

@item
Compile both CPython and GPGME with these bindings using the tools selected in step 2.
Ignore MingW, Msys2 and the official CPython binary installers.

Be thankful the answer to this question wasn't simply to say something like, install Linux or install FreeBSD (or even Apple's OS X).

There are many reasons for favouring CFFI and proponents of it are quite happy to repeat these things as if all it would take to switch from SWIG to CFFI is repeating that list as if it were a new concept.

The fact is that there are things which Python's CFFI implementation cannot handle in the GPGME C code. Beyond that there are features of SWIG which are simply not available with CFFI at all. SWIG generates the bindings to Python using the `gpgme.h` file, but that file is not a single version shipped with each release, it too is generated when GPGME is compiled.

CFFI is currently unable to adapt to such a potentially mutable codebase. If there were some means of applying SWIG's dynamic code generation to produce the Python/CFFI API modes of accessing the GPGME libraries (or the source source code directly), but such a thing does not exist yet either and it currently appears that work is needed in at least one of CFFI's dependencies before any of this can be addressed.

So if you're a massive fan of CFFI; that's great, but if you want this project to switch to CFFI then rather than just insisting that it should, I'd suggest you volunteer to bring CFFI up to the level this project needs.

If you're actually seriously considering doing so, then I'd suggest taking the `gpgme-tool.c` file in the GPGME directory and getting that to work with any of the CFFI API methods (not the ABI methods, they'll work with pretty much anything). When you start running into trouble with "ifdefs" then you'll know what sort of things are lacking. That doesn't even take into account the amount of work saved via SWIG's code generation techniques either.
It is fairly common practice amongst Python developers to, as much as possible, use packages like virtualenv to keep various things that are to be installed from interfering with each other. Given how much of the GPGME bindings is often at odds with the usual pythonic way of doing things, it stands to reason that this would be called into question too.

As it happens the answer as to whether or not the bindings can be used with virtualenv, the answer is both yes and no.

In general we recommend installing to the relevant path and matching prefix of GPGME itself. Which means that when GPGME, and ideally the rest of the GnuPG stack, is installed to a prefix like @samp{/usr/local} or @samp{/opt/local} then the bindings would need to be installed to the main Python installation and not a virtualised abstraction. Attempts to separate the two in the past have been known to cause weird and intermittent errors ranging from minor annoyances to complete failures in the build process.

As a consequence we only recommend building with and installing to the main Python installations within the same prefix as GPGME is installed to or which are found by GPGME’s configuration stage immediately prior to running the make commands. Which is exactly what the compiling and installing process of GPGME does by default.

Once that is done, however, it appears that a copy of the compiled module may be installed into a virtualenv of the same major and minor version matching the build. Alternatively it is possible to utilise a @samp{sites.pth} file in the @samp{site-packages/} directory of a virtualenv installation, which links back to the system installations corresponding directory in order to import anything installed system wide. This may or may not be appropriate on a case by case basis.

Though extensive testing of either of these options is not yet complete, preliminary testing of them indicates that both are viable as long as the main installation is complete. Which means that certain other options normally restricted to virtual environments are also available, including integration with pythonic test suites (e.g. @uref{https://docs.pytest.org/en/latest/index.html, pytest}) and other large projects.

That said, it is worth reiterating the warning regarding non-standard installations. If one were to attempt to install the bindings only to a virtual environment without somehow also including the full GnuPG stack (or enough of it as to include GPGME) then it is highly likely that errors would be encountered at some point and more than a little likely that the build process itself would break.
If a degree of separation from the main operating system is still required in spite of these warnings, then consider other forms of virtualisation. Either a virtual machine (e.g. @uref{https://www.virtualbox.org/, VirtualBox}), a hardware emulation layer (e.g. @uref{https://www.qemu.org/, QEMU}) or an application container (e.g. @uref{https://www.docker.com/why-docker, Docker}).

Finally it should be noted that the limited tests conducted thus far have been using the @samp{virtualenv} command in a new directory to create the virtual python environment. As opposed to the standard @samp{python3 -m venv} and it is possible that this will make a difference depending on the system and version of Python in use. Another option is to run the command @samp{python3 -m virtualenv /path/to/install/virtual/thingy} instead.

@node Post installation
@subsection Post installation

Following installation it is recommended to move the @samp{post_installer.py} script from the @samp{lang/python/examples/howto/} directory to the @samp{lang/python/} directory and run it. This will fix or restore files needed by Sphinx which may be removed during a distribution build for release. It will also generate reST files from Org mode files with Pandoc and generate Texinfo files from Org mode files with GNU Emacs and Org mode (in batch mode). Additionally it will fix the UTF-8 declaration line in the Texinfo files (Emacs expects "UTF-8" to be "utf-8").

@node Fundamentals
@chapter Fundamentals

Before we can get to the fun stuff, there are a few matters regarding GPGME's design which hold true whether you're dealing with the C code directly or these Python bindings.

@menu
* No REST::
* Context::
@end menu

@node No REST
@section No REST

The first part of which is or will be fairly blatantly obvious upon viewing the first example, but it's worth reiterating anyway. That being that this API is @emph{not} a REST API. Nor indeed could it ever be one.

Most, if not all, Python programmers (and not just Python programmers)
know how easy it is to work with a RESTful API. In fact they've become so popular that many other APIs attempt to emulate REST-like behaviour as much as they are able. Right down to the use of JSON formatted output to facilitate the use of their API without having to retrain developers.

This API does not do that. It would not be able to do that and also provide access to the entire C API on which it's built. It does, however, provide a very pythonic interface on top of the direct bindings and it's this pythonic layer that this HOWTO deals with.

@node Context
@section Context

One of the reasons which prevents this API from being RESTful is that most operations require more than one instruction to the API to perform the task. Sure, there are certain functions which can be performed simultaneously, particularly if the result known or strongly anticipated (e.g. selecting and encrypting to a key known to be in the public keybox).

There are many more, however, which cannot be manipulated so readily: they must be performed in a specific sequence and the result of one operation has a direct bearing on the outcome of subsequent operations. Not merely by generating an error either.

When dealing with this type of persistent state on the web, full of both the RESTful and REST-like, it's most commonly referred to as a session. In GPGME, however, it is called a context and every operation type has one.

@node Working with keys
@chapter Working with keys

@menu
* Key selection::
* Get key::
* Importing keys::
* Exporting keys::
@end menu

@node Key selection
@section Key selection

Selecting keys to encrypt to or to sign with will be a common occurrence when working with GPGMe and the means available for doing so are quite simple.
They do depend on utilising a Context; however once the data is recorded in another variable, that Context does not need to be the same one which subsequent operations are performed.

The easiest way to select a specific key is by searching for that key’s key ID or fingerprint, preferably the full fingerprint without any spaces in it. A long key ID will probably be okay, but is not advised and short key IDs are already a problem with some being generated to match specific patterns. It does not matter whether the pattern is upper or lower case.

So this is the best method:

```python
import gpg

k = gpg.Context().keylist(pattern="258E88DCBD3CD44D8E7AB43F6ECB6AF0DEADBEEF")
keys = list(k)
@end example
```

This is passable and very likely to be common:

```python
import gpg

k = gpg.Context().keylist(pattern="0x6ECB6AF0DEADBEEF")
keys = list(k)
@end example
```

And this is a really bad idea:

```python
import gpg

k = gpg.Context().keylist(pattern="0xDEADBEEF")
keys = list(k)
@end example
```

Alternatively it may be that the intention is to create a list of keys which all match a particular search string. For instance all the addresses at a particular domain, like this:

```python
import gpg

ncsc = gpg.Context().keylist(pattern="ncsc.mil")
nsa = list(ncsc)
@end example
```
@node Counting keys
@subsection Counting keys

Counting the number of keys in your public keybox (@samp{pubring.kbx}), the format which has superseded the old keyring format (@samp{pubring.gpg} and @samp{secring.gpg}), or the number of secret keys is a very simple task.

@example
import gpg
c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

print("Number of secret keys:  @{0@} 
Number of public keys:  @{1@} 
".format(secnum, pubnum))
@end example

NOTE: The @ref{C plus Python plus SWIG plus Cython, Cython} introduction in the @ref{Advanced or Experimental Use Cases, Advanced and Experimental} section uses this same key counting code with Cython to demonstrate some areas where Cython can improve performance even with the bindings. Users with large public keyrings or keyboxes, for instance, should consider these options if they are comfortable with using Cython.

@node Get key
@section Get key

An alternative method of getting a single key via its fingerprint is available directly within a Context with @samp{Context().get_key}. This is the preferred method of selecting a key in order to modify it, sign or certify it and for obtaining relevant data about a single key as a part of other functions; when verifying a signature made by that key, for instance.
By default this method will select public keys, but it can select secret keys as well.

This first example demonstrates selecting the current key of Werner Koch, which is due to expire at the end of 2018:

@example
import gpg

fingerprint = "80615870F5BAD690333686D0F2AD85AC1E42B367"
key = gpg.Context().get_key(fingerprint)
@end example

Whereas this example demonstrates selecting the author’s current key with the @samp{secret} key word argument set to @samp{True}:

@example
import gpg

fingerprint = "DB4724E6FA4286C92B4E55C4321E4E2373590E5D"
key = gpg.Context().get_key(fingerprint, secret=True)
@end example

It is, of course, quite possible to select expired, disabled and revoked keys with this function, but only to effectively display information about those keys.

It is also possible to use both unicode or string literals and byte literals with the fingerprint when getting a key in this way.

@node Importing keys
@section Importing keys

Importing keys is possible with the @samp{key_import()} method and takes one argument which is a bytes literal object containing either the binary or ASCII armoured key data for one or more keys.

The following example retrieves one or more keys from the SKS keyservers via the web using the requests module. Since requests returns the content as a bytes literal object, we can then use that directly to import the resulting data into our keybox.

@example
import gpg
import os.path
import requests
c = gpg.Context()
url = "https://sks-keyservers.net/pks/lookup"
pattern = input("Enter the pattern to search for key or user IDs: ")
payload = @{"op": "get", "search": pattern@}

r = requests.get(url, verify=True, params=payload)
result = c.key_import(r.content)

if result is not None and hasattr(result, "considered") is False:
    print(result)
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print("The total number of keys considered for import was: @0@")
    print("Number of keys revoked: @1@")
    print("Number of new signatures: @2@")
    print("Number of new subkeys: @3@")
    print("Number of new user IDs: @4@")
    print("Number of new secret keys: @5@")
    print("Number of unchanged keys: @6@")
else:
    pass
@end example

NOTE: When searching for a key ID of any length or a fingerprint (without spaces), the SKS servers require the the leading @samp{0x} indicative of hexadecimal be included. Also note that the old short key IDs (e.g. @samp{0xDEADBEEF}) should no longer be used due to the relative ease by which such key IDs can be reproduced, as demonstrated by the Evil32 Project in 2014 (which was subsequently exploited in 2016).

Testing for whether a string in any given search is or may be a hexadecimal value which may be missing the leading @samp{0x} is a simple matter of using a try/except statement which attempts to convert the
string as hex to an integer and then back to hex; then using that to search with. Raising a ValueError simply results in treating the string as a string. This is the method and logic utilised in the @samp{import-keys-hkp.py} script (see below).

@menu
* Working with ProtonMail::
  * Importing with HKP for Python::
  * Importing from ProtonMail with HKP for Python::
@end menu

@node Working with ProtonMail
@subsection Working with ProtonMail

Here is a variation on the example above which checks the constrained ProtonMail keyserver for ProtonMail public keys.

@example
import gpg
import requests
import sys

print('This script searches the ProtonMail key server for the specified key and imports it.

```
c = gpg.Context(armor=True)
url = "https://api.protonmail.ch/pks/lookup"
ksearch = []

if len(sys.argv) >= 2:
    keyterm = sys.argv[1]
else:
    keyterm = input("Enter the key ID, UID or search string: ")

if keyterm.count("@@") == 2 and keyterm.startwith("@@") is True:
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
    ksearch.append(keyterm[1:])
elif keyterm.count("@@") == 1 and keyterm.startwith("@@") is True:
    ksearch.append("@{0}@protonmail.com".format(keyterm[1:]))
    ksearch.append("@{0}@protonmail.ch".format(keyterm[1:]))
    ksearch.append("@{0}@pm.me".format(keyterm[1:]))
elif keyterm.count("@@") == 0:
    ksearch.append("@{0}@protonmail.com".format(keyterm))
    ksearch.append("@{0}@protonmail.ch".format(keyterm))
    ksearch.append("@{0}@pm.me".format(keyterm))
```
elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@{0}@@@protonmail.com".format(uid))
        ksearch.append("@{0}@@@protonmail.ch".format(uid))
        ksearch.append("@{0}@@@pm.me".format(uid))

elif keyterm.count("@@") > 2:
    uidlist = keyterm.split("@@")
    for uid in uidlist:
        ksearch.append("@{0}@@@protonmail.com".format(uid))
        ksearch.append("@{0}@@@protonmail.ch".format(uid))
        ksearch.append("@{0}@@@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    payload = @{"op": "get", "search": k}@
    try:
        r = requests.get(url, verify=True, params=payload)
        if r.ok is True:
            result = c.key_import(r.content)
        elif r.ok is False:
            result = r.content
    except Exception as e:
        result = None

if result is not None and hasattr(result, "considered") is False:
    print("@{0}@ for @{1}@", format(result.decode(), k))
elif result is not None and hasattr(result, "considered") is True:
    num_keys = len(result.imports)
    new_revs = result.new_revocations
    new_sigs = result.new_signatures
    new_subs = result.new_sub_keys
    new_uids = result.new_user_ids
    new_scrt = result.secret_imported
    nochange = result.unchanged
    print("The total number of keys considered for import was: @{0}\n    With UIDs wholly or partially matching the following string:
    @{1}"
    Number of keys revoked: @{2}@
    Number of new signatures: @{3}@
    Number of new subkeys: @{4}@
    Number of new user IDs: @{5}@
    Number of new secret keys: @{6}@

Number of unchanged keys: @{7@}

The key IDs for all considered keys were:
```{format}(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt,
    nochange))
    for i in range(num_keys):
        print(result.imports[i].fpr)
    print('')
e  
eor result is None:
    print(e)
@end example

Both the above example, @uref{../examples/howto/pmkey-import.py, pmkey-import.py}, and a version which
prompts
for an alternative GnuPG home directory, @uref{../examples/howto/pmkey-import-alt.py, pmkey-import-alt.py},
are
available with the other examples and are executable scripts.

Note that while the ProtonMail servers are based on the SKS servers,
their server is related more to their API and is not feature complete
by comparison to the servers in the SKS pool.  One notable difference
being that the ProtonMail server does not permit non ProtonMail users
to update their own keys, which could be a vector for attacking
ProtonMail users who may not receive a key’s revocation if it had been
compromised.

@node Importing with HKP for Python
@subsection Importing with HKP for Python

Performing the same tasks with the @uref{https://github.com/Selfnet/hkp4py, hkp4py module} (available via PyPI)
is not too much different, but does provide a number of options of
benefit to end users.  Not least of which being the ability to perform
some checks on a key before importing it or not.  For instance it may
be the policy of a site or project to only import keys which have not
been revoked.  The hkp4py module permits such checks prior to the
importing of the keys found.

@example
import gpg
import hkp4py
import sys
c = gpg.Context()
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")
results = []
keys = []

if len(sys.argv) > 2:
pattern = " ".join(sys.argv[1:])
if len(sys.argv) == 2:
    pattern = sys.argv[1]
else:
    pattern = input("Enter the pattern to search for keys or user IDs: ")

if pattern is not None:
    try:
        key = server.search(hex(int(pattern, 16)))
        keyed = True
    except ValueError as ve:
        key = server.search(pattern)
        keyed = False

    if key is not None:
        keys.append(key[0])
    if keyed is True:
        try:
            fob = server.search(pattern)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
        else:
            pass
    else:
        pass

for logrus in pattern.split():
    try:
        key = server.search(hex(int(logrus, 16)))
        hexed = True
    except ValueError as ve:
        key = server.search(logrus)
        hexed = False

    if key is not None:
        keys.append(key[0])
    if hexed is True:
        try:
            fob = server.search(logrus)
        except:
            fob = None
        if fob is not None:
            keys.append(fob[0])
        else:
            pass
else:
    pass

if len(keys) > 0:
    for key in keys:
        import_result = c.key_import(key.key_blob)
        results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print(result)
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was: @0@ }
        Number of keys revoked: @1@
        Number of new signatures: @2@
        Number of new subkeys: @3@
        Number of new user IDs: @4@
        Number of new secret keys: @5@
        Number of unchanged keys: @6@
        The key IDs for all considered keys were:
        
        for i in range(num_keys):
            print(result.imports[i].fpr)
        print(""
        else:
            pass
@end example

Since the hkp4py module handles multiple keys just as effectively as
one (@samp{keys} is a list of responses per matching key), the example
above is able to do a little bit more with the returned data before
anything is actually imported.

@node Importing from ProtonMail with HKP for Python
@subsection Importing from ProtonMail with HKP for Python
Though this can provide certain benefits even when working with ProtonMail, the scope is somewhat constrained there due to the limitations of the ProtonMail keyserver.

For instance, searching the SKS keyserver pool for the term "gnupg" produces hundreds of results from any time the word appears in any part of a user ID. Performing the same search on the ProtonMail keyserver returns zero results, even though there are at least two test accounts which include it as part of the username.

The cause of this discrepancy is the deliberate configuration of that server by ProtonMail to require an exact match of the full email address of the ProtonMail user whose key is being requested. Presumably this is intended to reduce breaches of privacy of their users as an email address must already be known before a key for that address can be obtained.

@enumerate
@item
Import from ProtonMail via HKP for Python Example no. 1

The following script is available with the rest of the examples under the somewhat less than original name, @samp{pmkey-import-hkp.py}.

@example
import gpg
import hkp4py
import os.path
import sys

print(""
This script searches the ProtonMail key server for the specified key and imports it.

Usage:  pmkey-import-hkp.py [search strings]
"
)

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
ksearch = []
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 2:
keyterms = sys.argv[1:]
elif len(sys.argv) == 2:
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    key_term = input("Enter the key ID, UID or search string: ")
    keyterms = key_term.split()

for keyterm in keyterms:
    if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:]
    elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
        ksearch.append("@{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("@{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("@{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count("@@") == 0:
        ksearch.append("@{0}@protonmail.com".format(keyterm))
        ksearch.append("@{0}@protonmail.ch".format(keyterm))
        ksearch.append("@{0}@pm.me".format(keyterm))
    elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("@{0}@protonmail.com".format(uid))
            ksearch.append("@{0}@protonmail.ch".format(uid))
            ksearch.append("@{0}@pm.me".format(uid))
    elif keyterm.count("@@") > 2:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("@{0}@protonmail.com".format(uid))
            ksearch.append("@{0}@protonmail.ch".format(uid))
            ksearch.append("@{0}@pm.me".format(uid))
    else:
        ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: @{0}@".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
                try:
                    import_result = c.key_import(key.key_blob)
                except Exception as e:
                    import_result = c.key_import(key.key)
                else:
                    pass
    except Exception as e:
        pass
paradox.append(keys)

try:
    import_result = None
except Exception as e:
    import_result = None
results.append(import_result)

for result in results:
    if result is not None and hasattr(result, "considered") is False:
        print("@{0@} for @{1@}".format(result.decode(), k))
    elif result is not None and hasattr(result, "considered") is True:
        num_keys = len(result.imports)
        new_revs = result.new_revocations
        new_sigs = result.new_signatures
        new_subs = result.new_sub_keys
        new_uids = result.new_user_ids
        new_scrt = result.secret_imported
        nochange = result.unchanged
        print(""
        The total number of keys considered for import was: @{0@}
        With UIDs wholly or partially matching the following string:
        @1@
        Number of keys revoked: @{2@}
        Number of new signatures: @{3@}
        Number of new subkeys: @{4@}
        Number of new user IDs: @{5@}
        Number of new secret keys: @{6@}
        Number of unchanged keys: @{7@}
        The key IDs for all considered keys were:
        
        """.format(num_keys, k, new_revs, new_sigs, new_subs, new_uids, new_scrt,
          nochange))
        for i in range(num_keys):
            print(result.imports[i].fpr)
        print"
        elif result is None:
            pass
@end example

@item
Import from ProtonMail via HKP for Python Example no. 2

Like its counterpart above, this script can also be found with the rest of the examples, by the name pmkey-import-hkp-alt.py.
With this script a modicum of effort has been made to treat anything passed as a \samp{homedir} which either does not exist or which is not a directory, as also being a possible user ID to check for. It's not guaranteed to pick up on all such cases, but it should cover most of them.

@example
import gpg
import hkp4py
import os.path
import sys

print(""
This script searches the ProtonMail key server for the specified key and imports it. Optionally enables specifying a different GnuPG home directory.

Usage:  pmkey-import-hkp.py \[homedir\] \[search string\]
    or:  pmkey-import-hkp.py \[search string\]
"")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://api.protonmail.ch")
keyterms = []
ksearch = []
allkeys = []
results = []
paradox = []
homeless = None

if len(sys.argv) > 3:
    homedir = sys.argv[1]
    keyterms = sys.argv[2:]
elif len(sys.argv) == 3:
    homedir = sys.argv[1]
    keyterm = sys.argv[2]
    keyterms.append(keyterm)
elif len(sys.argv) == 2:
    homedir = 
    keyterm = sys.argv[1]
    keyterms.append(keyterm)
else:
    keyterm = input("Enter the key ID, UID or search string: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
    keyterms.append(keyterm)

if len(homedir) == 0:
    homedir = None
    homeless = False
if homedir is not None:
    if homedir.startswith("~"):
        if os.path.exists(os.path.expanduser(homedir)) is True:
            c.home_dir = os.path.realpath(os.path.expanduser(homedir))
        else:
            homeless = True
    else:
        homeless = True
elif os.path.exists(os.path.realpath(homedir)) is True:
    if os.path.isdir(os.path.realpath(homedir)) is True:
        c.home_dir = os.path.realpath(homedir)
    else:
        homeless = True
else:
    homeless = True

# First check to see if the homedir really is a homedir and if not, treat it as
# a search string.
if homeless is True:
    keyterms.append(homedir)
    c.home_dir = None
else:
    pass

for keyterm in keyterms:
    if keyterm.count("@@") == 2 and keyterm.startswith("@@") is True:
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
        ksearch.append(keyterm[1:])
    elif keyterm.count("@@") == 1 and keyterm.startswith("@@") is True:
        ksearch.append("{0}@protonmail.com".format(keyterm[1:]))
        ksearch.append("{0}@protonmail.ch".format(keyterm[1:]))
        ksearch.append("{0}@pm.me".format(keyterm[1:]))
    elif keyterm.count("@@") == 0:
        ksearch.append("{0}@protonmail.com".format(keyterm))
        ksearch.append("{0}@protonmail.ch".format(keyterm))
        ksearch.append("{0}@pm.me".format(keyterm))
    elif keyterm.count("@@") == 2 and keyterm.startswith("@@") is False:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
            ksearch.append("{0}@protonmail.com".format(uid))
            ksearch.append("{0}@protonmail.ch".format(uid))
            ksearch.append("{0}@pm.me".format(uid))
    elif keyterm.count("@@") > 2:
        uidlist = keyterm.split("@@")
        for uid in uidlist:
ksearch.append("@{0@}@@protonmail.com".format(uid))
ksearch.append("@{0@}@@protonmail.ch".format(uid))
ksearch.append("@{0@}@@pm.me".format(uid))
else:
    ksearch.append(keyterm)

for k in ksearch:
    print("Checking for key for: @0@".format(k))
    try:
        keys = server.search(k)
        if isinstance(keys, list) is True:
            for key in keys:
                allkeys.append(key)
                try:
                    import_result = c.key_import(key.key_blob)
                except Exception as e:
                    import_result = c.key_import(key.key)
                else:
                    paradox.append(keys)
                    import_result = None
                except Exception as e:
                    import_result = None
        results.append(import_result)
    for result in results:
        if result is not None and hasattr(result, "considered") is False:
            print("@0@ for @1@".format(result.decode(), k))
        elif result is not None and hasattr(result, "considered") is True:
            num_keys = len(result.imports)
            new_revs = result.new_revocations
            new_sigs = result.new_signatures
            new_subs = result.new_sub_keys
            new_uids = result.new_user_ids
            new_scrt = result.secret_imported
            nochange = result.unchanged
            print(""
        The total number of keys considered for import was: @0@
        
        With UIDs wholly or partially matching the following string:
        
        @1@

Number of keys revoked: @2@
Number of new signatures: @3@
Number of new subkeys: @4@
Number of new user IDs: @5@
Number of new secret keys: @6@
Number of unchanged keys: @7@
The key IDs for all considered keys were:

```python
for i in range(num_keys):
    print(result.imports[i].fpr)
print('')
```

elif result is None:
    pass

Exporting keys remains a reasonably simple task, but has been separated into three different functions for the OpenPGP cryptographic engine. Two of those functions are for exporting public keys and the third is for exporting secret keys.

There are two methods of exporting public keys, both of which are very similar to the other. The default method, `key_export()`, will export a public key or keys matching a specified pattern as normal. The alternative, the `key_export_minimal()` method, will do the same thing except producing a minimised output with extra signatures and third party signatures or certifications removed.

```python
import gpg
import os.path
import sys

print('This script exports one or more public keys.

```
keyfile = sys.argv[1]
logrus = sys.argv[2]
homedir = sys.argv[3]

elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")

elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):  
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass

elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export(pattern=logrus)
except:
    result = c.key_export(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass
@example
import gpg
import os.path
import sys

It should be noted that the result will only return @samp{None} when a search pattern has been entered, but has not matched any keys. When the search pattern itself is set to @samp{None} this triggers the exporting of the entire public keybox.

@example
import gpg
import os.path
import sys
This script exports one or more public keys in minimised form.

```python
print("""
This script exports one or more public keys in minimised form.
""")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if homedir.startswith("~"):
    if os.path.exists(os.path.expanduser(homedir)) is True:
        c.home_dir = os.path.expanduser(homedir)
    else:
        pass
elif os.path.exists(homedir) is True:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_minimal(pattern=logrus)
except:
    result = c.key_export_minimal(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
else:
    pass
@end example

@node Exporting secret keys
@subsection Exporting secret keys
Exporting secret keys is, functionally, very similar to exporting public keys; save for the invocation of `@samp{pinentry}` via `@samp{gpg-agent}` in order to securely enter the key's passphrase and authorise the export.

The following example exports the secret key to a file which is then set with the same permissions as the output files created by the command line secret key export options.

```python
@example
import gpg
import os
import os.path
import sys

print("This script exports one or more secret keys.

The gpg-agent and pinentry are invoked to authorise the export.

")

c = gpg.Context(armor=True)

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the path and filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):  
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = None  
```
```python
homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

try:
    result = c.key_export_secret(pattern=logrus)
except:
    result = c.key_export_secret(pattern=None)

if result is not None:
    with open(keyfile, "wb") as f:
        f.write(result)
    os.chmod(keyfile, 0o600)
else:
    pass
@end example

Alternatively the approach of the following script can be used. This longer example saves the exported secret key(s) in files in the GnuPG home directory, in addition to setting the file permissions as only readable and writable by the user. It also exports the secret key(s) twice in order to output both GPG binary (@samp{.gpg}) and ASCII armoured (@samp{.asc}) files.

@example
import gpg
import os
import os.path
import subprocess
import sys

print("{}");
This script exports one or more secret keys as both ASCII armored and binary file formats, saved in files within the user's GPG home directory.

The gpg-agent and pinentry are invoked to authorise the export.
@end
```
if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-dirs homedir"
else:
    gpgconfcmd = "gpgconf --list-dirs homedir"

a = gpg.Context(armor=True)
b = gpg.Context()
c = gpg.Context()

if len(sys.argv) >= 4:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = sys.argv[3]
elif len(sys.argv) == 3:
    keyfile = sys.argv[1]
    logrus = sys.argv[2]
    homedir = input("Enter the GPG configuration directory path (optional): ")
elif len(sys.argv) == 2:
    keyfile = sys.argv[1]
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")
else:
    keyfile = input("Enter the filename to save the secret key to: ")
    logrus = input("Enter the UID matching the secret key(s) to export: ")
    homedir = input("Enter the GPG configuration directory path (optional): ")

if len(homedir) == 0:
    homedir = None
elif homedir.startswith("~"):
    userdir = os.path.expanduser(homedir)
    if os.path.exists(userdir) is True:
        homedir = os.path.realpath(userdir)
    else:
        homedir = None
else:
    homedir = os.path.realpath(homedir)

if os.path.exists(homedir) is False:
    homedir = None
else:
    if os.path.isdir(homedir) is False:
        homedir = None
    else:
        pass

if homedir is not None:
    c.home_dir = homedir
else:
    pass

if c.home_dir is not None:
    if c.home_dir.endswith("/")):
        gpgfile = "@{0}@{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "@{0}@{1}.asc".format(c.home_dir, keyfile)
    else:
        gpgfile = "@{0}@{1}.gpg".format(c.home_dir, keyfile)
        ascfile = "@{0}@{1}.asc".format(c.home_dir, keyfile)
else:
    if os.path.exists(os.environ["GNUPGHOME"]) is True:
        hd = os.environ["GNUPGHOME"]
    else:
        try:
            hd = subprocess.getoutput(gpgconfcmd)
        except:
            process = subprocess.Popen(gpgconfcmd.split(),
                stdout=subprocess.PIPE)
            procom = process.communicate()
            if sys.version_info[0] == 2:
                hd = procom[0].strip()
            else:
                hd = procom[0].decode().strip()
        gpgfile = "@{0}@{1}.gpg".format(hd, keyfile)
        ascfile = "@{0}@{1}.asc".format(hd, keyfile)
    try:
        a_result = a.key_export_secret(pattern=logrus)
        b_result = b.key_export_secret(pattern=logrus)
    except:
        a_result = a.key_export_secret(pattern=None)
        b_result = b.key_export_secret(pattern=None)

if a_result is not None:
    with open(ascfile, "wb") as f:
        f.write(a_result)
    os.chmod(ascfile, 0o600)
else:
    pass

if b_result is not None:
    with open(gpgfile, "wb") as f:
        f.write(b_result)
    os.chmod(gpgfile, 0o600)
else:
    pass
@end example
@node Sending public keys to the SKS Keyservers
@subsection Sending public keys to the SKS Keyservers

As with the previous section on importing keys, the @samp{hkp4py} module adds another option with exporting keys in order to send them to the public keyservers.

The following example demonstrates how this may be done.

@example
import gpg
import hkp4py
import os.path
import sys

print(""
This script sends one or more public keys to the SKS keyservers and is essentially a slight variation on the export-key.py script.
"")

c = gpg.Context(armor=True)
server = hkp4py.KeyServer("hkps://hkps.pool.sks-keyservers.net")

if len(sys.argv) > 2:
    logrus = " ".join(sys.argv[1:])
elif len(sys.argv) == 2:
    logrus = sys.argv[1]
else:
    logrus = input("Enter the UID matching the key(s) to send: ")

if len(logrus) > 0:
    try:
        export_result = c.key_export(pattern=logrus)
    except Exception as e:
        print(e)
    export_result = None
else:
    export_result = c.key_export(pattern=None)

if export_result is not None:
    try:
        try:
            send_result = server.add(export_result)
        except:
            send_result = server.add(export_result.decode())
        if send_result is not None:
            print(send_result)
else:
    pass
except Exception as e:
    print(e)
else:
    pass
@end example

An expanded version of this script with additional functions for specifying an alternative homedir location is in the examples directory as @samp{send-key-to-keyserver.py}.

The @samp{hkp4py} module appears to handle both string and byte literal text data equally well, but the GPGME bindings deal primarily with byte literal data only and so this script sends in that format first, then tries the string literal form.

@node Basic Functions
@chapter Basic Functions

The most frequently called features of any cryptographic library will be the most fundamental tasks for encryption software. In this section we will look at how to programmatically encrypt data, decrypt it, sign it and verify signatures.

@menu
* Encryption::
* Decryption::
* Signing text and files::
* Signature verification::
@end menu

@node Encryption
@section Encryption

Encrypting is very straight forward. In the first example below the message, @samp{text}, is encrypted to a single recipient's key. In the second example the message will be encrypted to multiple recipients.

@menu
* Encrypting to one key::
* Encrypting to multiple keys::
@end menu

@node Encrypting to one key
@section Encrypting to one key

Once the the Context is set the main issues with encrypting data is
essentially reduced to key selection and the keyword arguments specified in the `@samp{gpg.Context().encrypt()}` method.

Those keyword arguments are: `@samp{recipients}`, a list of keys encrypted to (covered in greater detail in the following section); `@samp{sign}`, whether or not to sign the plaintext data, see subsequent sections on signing and verifying signatures below (defaults to `@samp{True}`); `@samp{sink}`, to write results or partial results to a secure sink instead of returning it (defaults to `@samp{None}`); `@samp{passphrase}`, only used when utilising symmetric encryption (defaults to `@samp{None}`); `@samp{always_trust}`, used to override the trust model settings for recipient keys (defaults to `@samp{False}`); `@samp{add_encrypt_to}`, utilises any preconfigured `@samp{encrypt-to}` or `@samp{default-key}` settings in the user's `@samp{gpg.conf}` file (defaults to `@samp{False}`); `@samp{prepare}`, prepare for encryption (defaults to `@samp{False}`); `@samp{expect_sign}`, prepare for signing (defaults to `@samp{False}`); `@samp{compress}`, compresses the plaintext prior to encryption (defaults to `@samp{True}`).

```python
import gpg

a_key = "0x12345678DEADBEEF"

text = b"""Some text to test with.
Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```
c = gpg.Context(armor=True)

rkey = list(c.keylist(pattern=a_key, secret=False))
ciphertext, result, sign_result = c.encrypt(text, recipients=rkey, sign=True,
    always_trust=True,
    add_encrypt_to=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example

If the @samp{recipients} parameter is empty then the plaintext is encrypted symmetrically. If no @samp{passphrase} is supplied as a parameter or via a callback registered with the @samp{Context()} then an out-of-band prompt for the passphrase via pinentry will be invoked.

@example
import gpg

text = b"""Oh look, another test message.

The same rules apply as with the previous example and more likely than not, the message will actually be drawn from reading the contents of a file or, maybe, from entering data at an input() prompt.

Since the text in this case must be bytes, it is most likely that the input form will be a separate file which is opened with "rb" as this is the simplest method of obtaining the correct data format.

```python
c = gpg.Context(armor=True)
```
rpattern = list(c.keylist(pattern="@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])

ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                            sign=False, always_trust=True)

with open("secret_plans.txt.asc", "wb") as afile:
    afile.write(ciphertext)
@end example

All it would take to change the above example to sign the message
and also encrypt the message to any configured default keys would
be to change the @samp{c.encrypt} line to this:

@example
ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
                                            always_trust=True,
                                            add_encrypt_to=True)
@end example

The only keyword arguments requiring modification are those for which
the default values are changing. The default value of @samp{sign} is
@samp{True}, the default of @samp{always_trust} is @samp{False}, the default of
@samp{add_encrypt_to} is @samp{False}.

If @samp{always_trust} is not set to @samp{True} and any of the recipient keys
are not trusted (e.g. not signed or locally signed) then the
encryption will raise an error. It is possible to mitigate this
somewhat with something more like this:

@example
import gpg

with open("secret_plans.txt.asc", "rb") as afile:
    text = afile.read()

c = gpg.Context(armor=True)
rpattern = list(c.keylist(pattern="@gnupg.org", secret=False))
logrus = []

for i in range(len(rpattern)):
    if rpattern[i].can_encrypt == 1:
        logrus.append(rpattern[i])
try:
ciphertext, result, sign_result = c.encrypt(text, recipients=logrus,
    add_encrypt_to=True)
except gpg.errors.InvalidRecipients as e:
    for i in range(len(e.recipients)):
        for n in range(len(logrus)):
            if logrus[n].fpr == e.recipients[i].fpr:
                logrus.remove(logrus[n])
            else:
                pass
try:
ciphertext, result, sign_result = c.encrypt(text,
    recipients=logrus,
    add_encrypt_to=True)
with open("secret_plans.txt.asc", "wb") as afile:
afile.write(ciphertext)
except:
    pass
@end example

This will attempt to encrypt to all the keys searched for, then remove invalid recipients if it fails and try again.

@node Decryption
@section Decryption

Decrypting something encrypted to a key in one's secret keyring is fairly straight forward.

In this example code, however, preconfiguring either @samp{gpg.Context()} or @samp{gpg.core.Context()} as @samp{c} is unnecessary because there is no need to modify the Context prior to conducting the decryption and since the Context is only used once, setting it to @samp{c} simply adds lines for no gain.

@example
import gpg
ciphertext = input("Enter path and filename of encrypted file: ")
newfile = input("Enter path and filename of file to save decrypted data to: ")

with open(ciphertext, "rb") as cfile:
    try:
        plaintext, result, verify_result = gpg.Context().decrypt(cfile)
    except gpg.errors.GPGMEError as e:
        plaintext = None
    print(plaintext)
if plaintext is not None:
    with open(newfile, "wb") as nfile:
        nfile.write(plaintext)
else:
    pass
@end example

The data available in @samp{plaintext} in this example is the decrypted content as a byte object, the recipient key IDs and algorithms in @samp{result} and the results of verifying any signatures of the data in @samp{verify_result}.

If @samp{gpg.Context().decrypt(cfile, verify=False)} is called instead, then @samp{verify_result} will be returned as @samp{None} and the rest remains as described here.

@node Signing text and files
@section Signing text and files

The following sections demonstrate how to specify keys to sign with.

@menu
* Signing key selection::
* Normal or default signing messages or files::
* Detached signing messages and files::
* Cleartext signing messages or text::
@end menu

@node Signing key selection
@subsection Signing key selection

By default GPGME and the Python bindings will use the default key configured for the user invoking the GPGME API. If there is no default key specified and there is more than one secret key available it may be necessary to specify the key or keys with which to sign messages and files.

@example
import gpg

logrus = input("Enter the email address or string to match signing keys to: ")
hancock = gpg.Context().keylist(pattern=logrus, secret=True)
sig_src = list(hancock)
@end example

The signing examples in the following sections include the explicitly designated @samp{signers} parameter in two of the five examples; once where the resulting signature would be ASCII armoured and once where it
would not be armoured.

While it would be possible to enter a key ID or fingerprint here to match a specific key, it is not possible to enter two fingerprints and match two keys since the pattern expects a string, bytes or None and not a list. A string with two fingerprints won't match any single key.

@node Normal or default signing messages or files
@subsection Normal or default signing messages or files

The normal or default signing process is essentially the same as is most often invoked when also encrypting a message or file. So when the encryption component is not utilised, the result is to produce an encoded and signed output which may or may not be ASCII armoured and which may or may not also be compressed.

By default compression will be used unless GnuPG detects that the plaintext is already compressed. ASCII armouring will be determined according to the value of @samp{gpg.Context().armor}.

The compression algorithm is selected in much the same way as the symmetric encryption algorithm or the hash digest algorithm is when multiple keys are involved; from the preferences saved into the key itself or by comparison with the preferences with all other keys involved.

@example
import gpg

text0 = """"Declaration of ... something.

====

text = text0.encode()

c = gpg.Context(armor=True, signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@end example

Though everything in this example is accurate, it is more likely that reading the input data from another file and writing the result to a new file will be performed more like the way it is done in the next example. Even if the output format is ASCII armoured.

@example
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.NORMAL)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
@end example

@node Detached signing messages and files
@subsection Detached signing messages and files

Detached signatures will often be needed in programmatic uses of GPGME, either for signing files (e.g. tarballs of code releases) or as a component of message signing (e.g. PGP/MIME encoded email).

@example
import gpg

text0 = """Declaration of ... something.

====
text = text0.encode()

c = gpg.Context(armor=True)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
@end example

As with normal signatures, detached signatures are best handled as byte literals, even when the output is ASCII armoured.

@example
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context(signers=sig_src)
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.DETACH)

with open("/path/to/statement.txt.sig", "wb") as afile:
    afile.write(signed_data)
Though PGP/in-line messages are no longer encouraged in favour of PGP/MIME, there is still sometimes value in utilising in-line signatures. This is where clear-signed messages or text is of value.

```
import gpg
text0 = """Declaration of ... something.
"

text = text0.encode()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "w") as afile:
    afile.write(signed_data.decode())
```

In spite of the appearance of a clear-signed message, the data handled by GPGME in signing it must still be byte literals.

```
import gpg

with open("/path/to/statement.txt", "rb") as tfile:
    text = tfile.read()

c = gpg.Context()
signed_data, result = c.sign(text, mode=gpg.constants.sig.mode.CLEAR)

with open("/path/to/statement.txt.asc", "wb") as afile:
    afile.write(signed_data)
```

Essentially there are two principal methods of verification of a signature. The first of these is for use with the normal or default signing method and for clear-signed messages. The second is for use with files and data with detached signatures.
The following example is intended for use with the default signing method where the file was not ASCII armoured:

```python
@example
import gpg
import time

filename = "statement.txt"
gpg_file = "statement.txt.gpg"

c = gpg.Context()

try:
    data, result = c.verify(open(gpg_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
@ {0@}
with key @ {1@}
made at @ {2@}
***.format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
    time.ctime(sign.timestamp)))
else:
    pass
@end example
```

Whereas this next example, which is almost identical would work with normal ASCII armoured files and with clear-signed files:

```python
@example
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
```
verified = False
print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
@ {0@}
with key @ {1@}
made at @ {2@}
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
             time.ctime(sign.timestamp)))
else:
    pass
@end example

In both of the previous examples it is also possible to compare the
original data that was signed against the signed data in @samp{data} to see
if it matches with something like this:
@example
with open(filename, "rb") as afile:
    text = afile.read()

if text == data:
    print("Good signature.")
else:
    pass
@end example

The following two examples, however, deal with detached signatures.
With his method of verification the data that was signed does not get
returned since it is already being explicitly referenced in the first
argument of @samp{c.verify}. So @samp{data} is @samp{None} and only the information
in @samp{result} is available.

@example
import gpg
import time

filename = "statement.txt"
sig_file = "statement.txt.sig"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(sig_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
@ {0} @
with key @{1} @
made at @{2} @
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
        time.ctime(sign.timestamp)))
else:
    pass
@end example

@example
import gpg
import time

filename = "statement.txt"
asc_file = "statement.txt.asc"

c = gpg.Context()

try:
    data, result = c.verify(open(filename), open(asc_file))
    verified = True
except gpg.errors.BadSignatures as e:
    verified = False
    print(e)

if verified is True:
    for i in range(len(result.signatures)):
        sign = result.signatures[i]
        print("Good signature from:
@ {0} @
with key @{1} @
made at @{2} @
".format(c.get_key(sign.fpr).uids[0].uid, sign.fpr,
        time.ctime(sign.timestamp)))
else:
    pass
@end example

@node Creating keys and subkeys
@chapter Creating keys and subkeys
The one thing, aside from GnuPG itself, that GPGME depends on, of course, is the keys themselves. So it is necessary to be able to generate them and modify them by adding subkeys, revoking or disabling them, sometimes deleting them and doing the same for user IDs.

In the following examples a key will be created for the world's greatest secret agent, Danger Mouse. Since Danger Mouse is a secret agent he needs to be able to protect information to @samp{SECRET} level clearance, so his keys will be 3072-bit keys.

The pre-configured @samp{gpg.conf} file which sets cipher, digest and other preferences contains the following configuration parameters:

@example
expert
allow-freeform-uid
allow-secret-key-import
trust-model tofu+pgp
tofu-default-policy unknown
enable-large-rsa
enable-dsa2
cert-digest-algo SHA512
default-preference-list TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES BLOWFISH IDEA CAST5 3DES SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1 ZLIB BZIP2 ZIP Uncompressed
personal-cipher-preferences TWOFISH CAMELLIA256 AES256 CAMELLIA192 AES192 CAMELLIA128 AES BLOWFISH IDEA CAST5 3DES
personal-digest-preferences SHA512 SHA384 SHA256 SHA224 RIPEMD160 SHA1
personal-compress-preferences ZLIB BZIP2 ZIP Uncompressed
@end example

@node Primary key
@section Primary key

Generating a primary key uses the @samp{create_key} method in a Context. It contains multiple arguments and keyword arguments, including:

@samp{userid}, @samp{algorithm}, @samp{expires_in}, @samp{expires}, @samp{sign}, @samp{encrypt},
@samp{certify}, @samp{authenticate}, @samp{passphrase} and @samp{force}. The defaults for all of those except @samp{userid}, @samp{algorithm}, @samp{expires_in}, @samp{expires} and @samp{passphrase} is @samp{False}. The defaults for @samp{algorithm} and
@samp{passphrase} is @samp{None}. The default for @samp{expires_in} is @samp{0}. The default for @samp{expires} is @samp{True}. There is no default for @samp{userid}.

If @samp{passphrase} is left as @samp{None} then the key will not be generated with a passphrase, if @samp{passphrase} is set to a string then that will be the passphrase and if @samp{passphrase} is set to @samp{True} then gpg-agent will launch pinentry to prompt for a passphrase. For the sake of convenience, these examples will keep @samp{passphrase} set to @samp{None}.

@example
import gpg
c = gpg.Context()
c.home_dir = "~/gnupg-dm"
userid = "Danger Mouse <dm@secret.example.net>"
dmkey = c.create_key(userid, algorithm="rsa3072", expires_in=31536000, sign=True, certify=True)
@end example

One thing to note here is the use of setting the @samp{c.home_dir} parameter. This enables generating the key or keys in a different location. In this case to keep the new key data created for this example in a separate location rather than adding it to existing and active key store data. As with the default directory, @samp{~/.gnupg}, any temporary or separate directory needs the permissions set to only permit access by the directory owner. On posix systems this means setting the directory permissions to 700.

The @samp{temp-homedir-config.py} script in the HOWTO examples directory will create an alternative homedir with these configuration options already set and the correct directory and file permissions.

The successful generation of the key can be confirmed via the returned @samp{GenkeyResult} object, which includes the following data:

@example
print("***
Fingerprint:  @{0@}
Primary Key:  @{1@}
Public Key:  @{2@}
Secret Key:  @{3@}
Sub Key:  @{4@}
User IDs:  @{5@}
***.format(dmkey.fpr, dmkey.primary, dmkey.pubkey, dmkey.seckey, dmkey.sub, dmkey.uid))
@end example
Alternatively the information can be confirmed using the command line program:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
  177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@secret.example.net>

bash-4.4$
@end example

As with generating keys manually, to preconfigure expanded preferences for the cipher, digest and compression algorithms, the @samp{gpg.conf} file must contain those details in the home directory in which the new key is being generated. I used a cut down version of my own @samp{gpg.conf} file in order to be able to generate this:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm --edit-key 177B7C25DB99745EE2EE13ED026D2F19E99E63AA showpref quit
Secret key is available.

sec  rsa3072/026D2F19E99E63AA
    trust: ultimate validity: ultimate
[ultimate] (1). Danger Mouse <dm@secret.example.net>

[ultimate] (1). Danger Mouse <dm@secret.example.net>
   Cipher: TWOFISH, CAMELLIA256, AES256, CAMELLIA192, AES192, CAMELLIA128, AES, BLOWFISH, IDEA, CAST5, 3DES
   Digest: SHA512, SHA384, SHA256, SHA224, RIPEMD160, SHA1
   Compression: ZLIB, BZIP2, ZIP, Uncompressed
   Features: MDC, Keyserver no-modify

bash-4.4$
@end example

@node Subkeys
@section Subkeys

Adding subkeys to a primary key is fairly similar to creating the primary key with the @samp{create_subkey} method. Most of the arguments are the same, but not quite all. Instead of the @samp{userid} argument there is now a @samp{key} argument for selecting which primary key to add
In the following example an encryption subkey will be added to the primary key. Since Danger Mouse is a security conscious secret agent, this subkey will only be valid for about six months, half the length of the primary key.

```python
import gpg

c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

key = c.get_key(dmkey.fpr, secret=True)
dmsub = c.create_subkey(key, algorithm="rsa3072", expires_in=15768000, encrypt=True)
```

As with the primary key, the results here can be checked with:

```python
print(
    "Fingerprint: @{0}@ 
    Primary Key: @{1}@ 
    Public Key: @{2}@ 
    Secret Key: @{3}@ 
    Sub Key: @{4}@ 
    User IDs: @{5}@  
".format(dmsub.fpr, dmsub.primary, dmsub.pubkey, dmsub.seckey, dmsub.sub, dmsub.uid))
```

As well as on the command line with:

```bash
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/.gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
       177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <dm@@secret.example.net>
ssb  rsa3072 2018-03-15 [E] [expires: 2018-09-13]
```

@node User IDs
@section User IDs
Adding User IDs

By comparison to creating primary keys and subkeys, adding a new user ID to an existing key is much simpler. The method used to do this is @samp{key_add_uid} and the only arguments it takes are for the @samp{key} and the new @samp{uid}.

@example
import gpg

c = gpg.Context()
c.home_dir = "~/.gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@@secret.example.net>"

c.key_add_uid(key, uid)
@end example

Unsurprisingly the result of this is:

@example
bash-4.4$ gpg --homedir ~/.gnupg-dm -K
~/gnupg-dm/pubring.kbx
----------------------
sec   rsa3072 2018-03-15 [SC] [expires: 2019-03-15]
177B7C25DB99745EE2EE13ED026D2F19E99E63AA
uid           [ultimate] Danger Mouse <danger.mouse@@secret.example.net>
uid           [ultimate] Danger Mouse <dm@@secret.example.net>
ssb   rsa3072 2018-03-15 [E] [expires: 2018-09-13]

bash-4.4$
@end example

Revoking User IDs

Revoking a user ID is a fairly similar process, except that it uses the @samp{key_revoke_uid} method.
```python
import gpg

c = gpg.Context()
c.home_dir = "~/gnupg-dm"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
uid = "Danger Mouse <danger.mouse@@secret.example.net>"

c.key_revoke_uid(key, uid)
@end example

@node Key certification
@section Key certification

Since key certification is more frequently referred to as key signing,
the method used to perform this function is @samp{key_sign}.

The @samp{key_sign} method takes four arguments: @samp{key}, @samp{uids},
@samp{expires_in} and @samp{local}. The default value of @samp{uids} is @samp{None} and
which results in all user IDs being selected. The default value of
both @samp{expires_in} and @samp{local} is @samp{False}; which results in the
signature never expiring and being able to be exported.

The @samp{key} is the key being signed rather than the key doing the
signing. To change the key doing the signing refer to the signing key
selection above for signing messages and files.

If the @samp{uids} value is not @samp{None} then it must either be a string to
match a single user ID or a list of strings to match multiple user
IDs. In this case the matching of those strings must be precise and
it is case sensitive.

To sign Danger Mouse's key for just the initial user ID with a
signature which will last a little over a month, do this:

@example
import gpg

c = gpg.Context()
uid = "Danger Mouse <dm@@secret.example.net>"

dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
key = c.get_key(dmfpr, secret=True)
c.key_sign(key, uids=uid, expires_in=2764800)
@end example
```
Verifying key certifications

```python
import gpg
import time
c = gpg.Context()
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]
for user in key.uids:
    for sig in user.signatures:
        print("0x{0[0] }.format(sig.keyid), ", time.ctime(sig.timestamp), ",
                  sig.uid)
```

Which for Danger Mouse displays the following:

```python
0x92E3FC6115435C65A Thu Mar 15 13:17:44 2018 Danger Mouse <dm@secret.example.net>
0x321E4E2373590E5D Mon Nov 26 12:46:05 2018 Ben McGinnes <ben@adversary.org>
```

The two key signatures listed are for the self-certification of Danger Mouse's key made when the key was created in March, 2018; and the second is a signature made by the author and set to expire at the end of the year. Note that the second signature was made with the following code (including the preceding code to display the output of the certifications or key signatures):

```python
import gpg
import math
import pendulum
import time
hd = "/home/dm/.gnupg"
c = gpg.Context()
d = gpg.Context(home_dir=hd)
dmfpr = "177B7C25DB99745EE2EE13ED026D2F19E99E63AA"
dmuid = "Danger Mouse <dm@secret.example.net>"
dkeys = list(c.keylist(pattern=dmuid))
```
dmkey = dkeys[0]

c.key_import(d.key_export(pattern=None))

tp = pendulum.period(pendulum.now(tz="local"), pendulum.datetime(2019, 1, 1))
ts = tp.total_seconds()
total_secs = math.ceil(ts)
c.key_sign(dmkey, uids=dmuid, expires_in=total_secs)

d.key_import(c.key_export(pattern=dmuid))
keys = list(c.keylist(pattern=dmuid, mode=gpg.constants.keylist.mode.SIGS))
key = keys[0]

for user in key.uids:
    for sig in user.signatures:
        print("0x@ {0@ }",format(sig.keyid), ",", time.ctime(sig.timestamp), ",", sig.uid)
@end example

Note that this final code block includes the use of a module which is
@emph{not} part of Python's standard library, the @uref{https://pendulum.eustace.io/, pendulum module}. Unlike
the standard datetime module, pendulum makes working with dates and
times significantly easier in Python; just as the requests module
makes working with HTTP and HTTPS easier than the builtin modules do.

Though neither requests nor pendulum are required modules for using
the GPGME Python bindings, they are both highly recommended more
generally.

@node Advanced or Experimental Use Cases
@chapter Advanced or Experimental Use Cases

@end menu
* C plus Python plus SWIG plus Cython::
@end end menu

@node C plus Python plus SWIG plus Cython
@section C plus Python plus SWIG plus Cython

In spite of the apparent incongruence of using Python bindings to a C
interface only to generate more C from the Python; it is in fact quite
possible to use the GPGME bindings with @uref{http://docs.cython.org/en/latest/index.html, Cython}. Though in
many cases
the benefits may not be obvious since the most computationally
intensive work never leaves the level of the C code with which GPGME
itself is interacting with.

Nevertheless, there are some situations where the benefits are
demonstrable. One of the better and easier examples being the one of the early examples in this HOWTO, the \ref{Counting keys, key counting} code. Running that example as an executable Python script, \samp{keycount.py} (available in the \samp{examples/howto/} directory), will take a noticeable amount of time to run on most systems where the public keybox or keyring contains a few thousand public keys.

Earlier in the evening, prior to starting this section, I ran that script on my laptop; as I tend to do periodically and timed it using \samp{time} utility, with the following results:

@example
bash-4.4$ time keycount.py
Number of secret keys: 23
Number of public keys: 12112

real 11m52.945s
user 0m0.913s
sys 0m0.752s
bash-4.4$
@end example

Sometime after that I imported another key and followed it with a little test of Cython. This test was kept fairly basic, essentially lifting the material from the \uref{http://docs.cython.org/en/latest/src/tutorial/cython_tutorial.html, Cython Basic Tutorial} to demonstrate compiling Python code to C. The first step was to take the example key counting code quoted previously, essentially from the importing of the \samp{gpg} module to the end of the script:

@example
import gpg
c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)
seclist = list(seckeys)
secnum = len(seclist)
publist = list(pubkeys)
pubnum = len(publist)
print(""
   Number of secret keys: @0@")
@end example
Number of public keys: 1

```python
secnum, pubnum)
@end example

Save that into a file called `keycount.pyx` and then create a
`setup.py` file which contains this:

```python
from distutils.core import setup
from Cython.Build import cythonize

setup(
    ext_modules = cythonize("keycount.pyx")
)
@end example

Compile it:

```bash
python setup.py build_ext --inplace
@end bash

Then run it in a similar manner to `keycount.py`:

```bash
time python3.7 -c "import keycount"
@end bash

Number of secret keys: 23
Number of public keys: 12113

real 6m47.905s
user 0m0.785s
sys 0m0.331s

Cython turned `keycount.pyx` into an 81KB `keycount.o` file in the
`build/` directory, a 24KB `keycount.cpython-37m-darwin.so` file to be
imported into Python 3.7 and a 113KB `keycount.c` generated C source
code file of nearly three thousand lines. Quite a bit bigger than the
314 bytes of the `keycount.pyx` file or the full 1,452 bytes of the
full executable `keycount.py` example script.

On the other hand it ran in nearly half the time; taking 6 minutes and
47.905 seconds to run. As opposed to the 11 minutes and 52.945 seconds which the CPython script alone took.

The `keycount.pyx` and `setup.py` files used to generate this example have been added to the `examples/howto/advanced/cython/` directory. The example versions include some additional options to annotate the existing code and to detect Cython’s use. The latter comes from the section of the Cython documentation.

@node Miscellaneous extras and work-arounds
@chapter Miscellaneous extras and work-arounds

Most of the things in the following sections are here simply because there was no better place to put them, even though some are only peripherally related to the GPGME Python bindings. Some are also workarounds for functions not integrated with GPGME as yet. This is especially true of the first of these, dealing with Group lines.

@node Group lines
@section Group lines

There is not yet an easy way to access groups configured in the gpg.conf file from within GPGME. As a consequence these central groupings of keys cannot be shared amongst multiple programs, such as MUAs readily.

The following code, however, provides a work-around for obtaining this information in Python.

@example
import subprocess
import sys

if sys.platform == "win32":
    gpgconfcmd = "gpgconf.exe --list-options gpg"
else:
    gpgconfcmd = "gpgconf --list-options gpg"

process = subprocess.Popen(gpgconfcmd.split(), stdout=subprocess.PIPE)
procom = process.communicate()
if sys.version_info[0] == 2:
    lines = procom[0].splitlines()
else:
    lines = procom[0].decode().splitlines()

for line in lines:
    if line.startswith("group") is True:
        break

groups = line.split(";")[1].replace("", ").split(\')

group_lines = []
group_lists = []

for group in groups:
    group_lines.append(group.split("="))
    group_lists.append(group.split("="))

for glist in group_lists:
    glist[1] = glist[1].split()
@end example

The result of that code is that @samp{group_lines} is a list of lists where
@samp{group_lines[i][0]} is the name of the group and @samp{group_lines[i][1]} is the key IDs of the group as a string.

The @samp{group_lists} result is very similar in that it is a list of lists. The first part, @samp{group_lists[i][0]} matches
@samp{group_lines[i][0]} as the name of the group, but @samp{group_lists[i][1]} is the key IDs of the group as a list.

A demonstration of using the @samp{groups.py} module is also available in the form of the executable @samp{mutt-groups.py} script. This second script reads all the group entries in a user's @samp{gpg.conf} file and converts them into crypt-hooks suitable for use with the Mutt and Neomutt mail clients.

@node Keyserver access for Python
@section Keyserver access for Python

The @uref{https://github.com/Selfnet/hkp4py, hkp4py} module by Marcel Fest was originally a port of the old @uref{https://github.com/dgladkov/python-hkp, python-hkp} module from Python 2 to Python 3 and updated to use the @uref{http://docs.python-requests.org/en/latest/index.html, requests} module instead. It has since been modified to provide support for Python 2.7 as well and is available via PyPI.

Since it rewrites the @samp{hkp} protocol prefix as @samp{http} and @samp{hkps} as
@samp{https}, the module is able to be used even with servers which do not support the full scope of keyservers functions. @footnote{Such as with ProtonMail servers. This also means that restricted servers which only advertise either HTTP or HTTPS end points and not Hkp or HKPS end points must still be identified as as HKP or HKPS within the Python Code. The @samp{hkp4py} module will rewrite these appropriately when the connection is made to the server.} It also works quite readily when incorporated into a @ref{C plus Python plus SWIG plus Cython, Cython} generated and compiled version of any code.

* Key import format::
@end menu

@node Key import format
@subsection Key import format

The hkp4py module returns key data via requests as string literals (@samp{r.text}) instead of byte literals (@samp{r.content}). This means that the returned key data must be encoded to UTF-8 when importing that key material using a @samp{gpg.Context().key_import()} method.

For this reason an alternative method has been added to the @samp{search} function of @samp{hkp4py.KeyServer()} which returns the key in the correct format as expected by @samp{key_import}. When importing using this module, it is now possible to import with this:

@example
for key in keys:
    if key.revoked is False:
        gpg.Context().key_import(key.key_blob)
    else:
        pass
@end example

Without that recent addition it would have been necessary to encode the contents of each @samp{hkp4py.KeyServer().search()[i].key} in @samp{hkp4py.KeyServer().search()} before trying to import it.

An example of this is included in the @ref{Importing keys, Importing Keys} section of this HOWTO and the corresponding executable version of that example is available in the @samp{lang/python/examples/howto} directory as normal; the executable version is the @samp{import-keys-hkp.py} file.

@node GPGME version checking
@section GPGME version checking

For various reasons it may be necessary to check which version of
GPGME the bindings have been built against; including whether a
minimum required version of GPGME is in use.

For the most part the @samp{gpg.version.versionstr} and
@samp{gpg.version.versionlist} methods have been quite sufficient. The
former returns the same string as @samp{gpgme-config --version}, while the
latter returns the major, minor and patch values in a list.

To check if the installed bindings have actually been built against
the current installed libgpgme version, this check can be performed:

@example
import gpg
import subprocess
import sys

gpgme_version_call = subprocess.Popen(['gpgme-config', '--version'],
    stdout=subprocess.PIPE,
    stderr=subprocess.PIPE)
gpgme_version_str = gpgme_version_call.communicate()

if sys.version_info[0] == 2:
    gpgme_version = gpgme_version_str[0].strip()
elif sys.version_info[0] >= 3:
    gpgme_version = gpgme_version_str[0].decode().strip()
else:
    gpgme_version = None

if gpgme_version is not None:
    if gpgme_version == gpg.version.versionstr:
        print("The GPGME Python bindings match libgpgme.")
    else:
        print("The GPGME Python bindings do NOT match libgpgme.")
else:
    print("Upgrade Python and reinstall the GPGME Python bindings.")
@end example

For many developers, however, the preferred checking means checking
for a minimum version or point release. This is now readily available
via the @samp{gpg.version.versionintlist} method (added in version
@samp{1.12.1-beta79}). It is also now possible to easily check whether the
installed GPGME Python bindings were built from a development or beta
branch of the GPGME source code.

The following code demonstrates how both of those methods may be used:

@example
import gpg

try:
    if gpg.version.is_beta is True:
        print("The installed GPGME Python bindings were built from beta code.")
    else:
        print("The installed GPGME Python bindings are a released version.")
except Exception as e:
    print(e)

try:
    if gpg.version.versionintlist[0] == 1:
        if gpg.version.versionintlist[1] == 12:
            if gpg.version.versionintlist[2] == 1:
                print("This is the minimum version for using versionintlist.")
            elif gpg.version.versionintlist[2] > 1:
                print("The versionintlist method is available.")
            else:
                pass
        elif gpg.version.versionintlist[1] > 12:
            print("The versionintlist method is available.")
        else:
            pass
    elif gpg.version.versionintlist[0] > 1:
        print("The versionintlist method is available.")
    else:
        pass
except Exception as e:
    print(e)
@end example

The points where @samp{pass} is used in the above example will most likely also produce an @samp{Exception} error since those results should only occur in versions which do not have the @samp{gpgme.version.is_beta} and @samp{gpgme.version.versionintlist} methods available.

@node Copyright and Licensing
@chapter Copyright and Licensing

@section Copyright
Copyright  The GnuPG Project, 2018.

Draft editions of this HOWTO may be periodically available directly from the author at any of the following URLs:

- [GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)](https://files.au.adversary.org/crypto/gpgme-python-howto.html)
- [GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)](http://files.au.adversary.org/crypto/gpgme-python-howto.html)

These draft versions have been generated from this document via GNU Emacs to `.texi` and GNU Texinfo to HTML. Though it is likely that the specific file used will be on the same server with the generated output formats. Occasionally I may include the Org mode generated XHTML versions:

- [GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 SSL)](https://files.au.adversary.org/crypto/gpgme-python-howto.xhtml)
- [GPGME Python Bindings HOWTO draft (HTML single file, AWS S3 no SSL)](http://files.au.adversary.org/crypto/gpgme-python-howto.xhtml)

That XHTML version, however, is exported in a way which inherits a colour scheme from the author's Emacs theme (which is a higher contrast version of Zenburn) ported by Holomorph. So it's fine for people who prefer dark themed web pages, but not so great for everyone else.

The GNU Texinfo and reStructured Text versions ship with the software, while the GNU Emacs Info version is generated from the Texinfo.
version using GNU Texinfo or GNU Makeinfo. The Texinfo format is generated from the original Org mode source file in Org mode itself either within GNU Emacs or via the command line by invoking Emacs in batch mode:

@example
emacs gpgme-python-howto.org --batch -f org-texinfo-export-to-texinfo --kill
emacs gpgme-python-howto --batch -f org-texinfo-export-to-texinfo --kill
@end example

The reStructuredText format is also generated from the Org mode source file, except it is generated using @uref{https://pandoc.org, Pandoc} with either of the following commands (depending on the filename):

@example
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto.org
pandoc -f org -t rst+smart -o gpgme-python-howto.rst gpgme-python-howto
@end example

Note that the Org mode source files are identified as such via a mode line at the top of each file and have had their @samp{.org} file extensions dropped in order to make scripted generation of output formats easier and not require renaming files post-conversion.

Due to a bug in Org mode's texinfo conversion method, the recommended steps for generating the Texinfo files for all the files in the @samp{lang/python/doc/src/} directory are as follows:

@example
for x in * ; do
  emacs $x --batch -f org-texinfo-export-to-texinfo --kill
  cat $x.texi | sed -e 's/@@documentencoding UTF-8/@@documentencoding utf-8/g' > ../texinfo/$x.texi
  pandoc -f org -t rst+smart -o ../rst/$x.rst $x
done ;
rm -fv *.texi
cd ../texinfo
mkdir info
mkdir html
for x in *.texi ; do
  makeinfo -v $x
  makeinfo --html --no-split $x
done ;
mv *.info info/
mv *.html html/
@end example

This code snippet includes the generation of the reStructuredText files and would be expected to be run from the @samp{doc/src/} directory
containing the Org mode source files. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs. It also assumes that the commands are being run on POSIX compliant systems with basic tools like sed, the Bourne shell and GNU Emacs@footnote{Okay, Emacs might not necessarily qualify as a basic tool, but it is common enough that having it installed on a system isn’t too great an expectation, nor is it difficult to add to most POSIX systems, even if the users of those systems do not personally use it.} available. The code snippet also includes the steps for generating the Emacs Info files and HTML files from the Texinfo files. Using reStructuredText files with Sphinx is best left for the documentation of that project.

In addition to these there is a significantly less frequently updated version as a HTML @uref{https://files.au.adversary.org/crypto/gpgme-python/dita/webhelp/index.html, WebHelp site} (AWS S3 SSL); generated from DITA XML source files, which can be found in @uref{https://dev.gnupg.org/source/gpgme/browse/ben%252Fhowto-dita/, an alternative branch} of the GPGME git repository.

Various generated output formats may occasionally be found in subdirectories of the @uref{https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python, gpgme-python} directory. In particular within the @uref{https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/dita, DITA}, @uref{https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/rst, reStructuredText} and @uref{https://s3.amazonaws.com/files.au.adversary.org/crypto/gpgme-python/texinfo, Texinfo} subdirectories. The @samp{rst} directory contains output files generated with Sphinx and may include a considerable number of its possible output formats, but there are no guarantees as to how recent these are or even if they are present.

These draft editions are not official documents and the version of documentation in the master branch or which ships with released versions is the only official documentation. Nevertheless, these draft editions may occasionally be of use by providing more accessible web versions which are updated between releases. They are provided on the understanding that they may contain errors or may contain content subject to change prior to an official release.

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@section License GPL compatible

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@bye
# -*- mode: org -*-
#+TITLE: What Was New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* What Was New
:PROPERTIES:
:CUSTOM_ID: new-stuff
:END:

| Version:        | 0.0.1                                    |
| GPGME Version:  | 1.13.0                                   |
| Author:         | Ben McGinnes <ben@gnupg.org>             |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D  |
| Language:       | Australian English, British English      |
| xml:lang:       | en-AU, en-GB, en                         |

The following are all the past /What's New/ sections for the Python Bindings HOWTO and other documentation.

** What Was New in GPGME 1120
:PROPERTIES:
:CUSTOM_ID: gpgme-1-12-0
:END:

The most obviously new point for those reading this guide is this section on other new things, but thats hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

*** New in GPGME 1120
 :PROPERTIES:
 :CUSTOM_ID: new-stuff-1-12-0
 :END:

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.
The bullet points of new additions are:

- an expanded section on [[file:gpgme-python-howto#installation][installing]] and [[file:gpgme-python-howto#snafu][troubleshooting]] the Python bindings.

- The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.

- Python 3.7 has been moved to the head of the specified python versions list in the build process.

- In order to fix some other issues, there are certain underlying functions which are more exposed through the [[file:gpgme-python-howto#howto-get-context][gpg.Context()]], but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to =gpg.core= and the =Context()=, however, were intended (see below).

- Continuing work in identifying and confirming the cause of oft-reported [[file:gpgme-python-howto#snafu-runtime-not-funtime][problems installing the Python bindings on Windows]].

- GSOC: Google's Surreptitiously Ordered Conscription ... erm ... oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key_import function; building on prior work by Tobias Mueller.

- Several new methods functions were added to the gpg.Context(), including: [[file:gpgme-python-howto#howto-import-key][key_import]], [[file:gpgme-python-howto#howto-export-key][key_export]], [[file:gpgme-python-howto#howto-export-public-key][key_export_minimal]] and [[file:gpgme-python-howto#howto-export-secret-key][key_export_secret]].

- Importing and exporting examples include versions integrated with Marcel Fest's recently released [[https://github.com/Selfnet/hkp4py][HKP for Python]] module. Some [[file:gpgme-python-howto#hkp4py][additional notes on this module]] are included at the end of the HOWTO.

- Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.

- Semi-formalised the location where [[file:gpgme-python-howto#draft-editions][draft versions]] of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.

- The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency
with that project (and actually ship with each release).
- a reStructuredText (=.rst=) version is also generated for Python
developers more used to and comfortable with that format as it is
the standard Python documentation format and Python developers may
wish to use it with Sphinx. Please note that there has been no
testing of the reStructuredText version with Sphinx at all. The
reST file was generated by the simple expedient of using [[https://pandoc.org/][Pandoc]].
- Added a new section for [[file:gpgme-python-howto#advanced-use][advanced or experimental use]].
- Began the advanced use cases with [[file:gpgme-python-howto#cython][a section]] on using the module with
[[https://cython.org/][Cython]].
- Added a number of new scripts to the =example/howto/= directory;
 some of which may be in advance of their planned sections of the
HOWTO (and some are just there because it seemed like a good idea at
the time).
- Cleaned up a lot of things under the hood.

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Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0*H
certify@pca.dfn.de0"0
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nskvS2r#iA4H]*/
:Sd:v
tD)L+~IWWD)eP&q)(
!1\p%1.dsmnQ.g-W)@\(t<kvm5j(d)9M_KGQJ0;qTE 00 HB0)'HBhttps://mystic.pca.dfn.de/0A
`HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html08`HB
+)The DFN Top Level Certification Authority0!`HBcgi/check-rev.cgi?0`HB
dfnpca.crl0U00U0
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OgGqjGVxI50%<Pb18z;:r0U<A%3#f8b"<iX"Vlk"*Q8&hAPI"300KUb&Qq'46_[D]JZl;=T
/OF
1.13.1
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For example, if you distribute copies of such a program, whether
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Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
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For the developers' and authors' protection, the GPL clearly explains
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authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

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

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
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1.1202 perl-carp 1.42-396.el8

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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
distribution.

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Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/README
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---
abstract: 'alternative warn and die for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Carp
no_index:
directory:
  - t
  - inc
requires:
  Config: '0'
Exporter: '0'
ExtUtils::MakeMaker: '0'
IPC::Open3: '1.0103'
Test::More: '0.47'
overload: '0'
strict: '0'
warnings: '0'
version: '1.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/META.yml
No license file was found, but licenses were detected in source scan.

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Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1009548115_1591901898.54/0/perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/perl-Carp.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

  # warn user (from perspective of caller)
  carp "string trimmed to 80 chars";

  # die of errors (from perspective of caller)
  croak "We're outta here!";

  # die of errors with stack backtrace
  confess "not implemented";

  # cluck, longmess and shortmess not exported by default
  use Carp qw(cluck longmess shortmess);
  cluck "This is how we got here!";
  $long_message = longmess( "message from cluck() or confess()" );
  $short_message = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION

The Carp routines are useful in your own modules because
they act like C<die()> or C<warn()>; but with a message which is more likely to be useful to a user of your module. In the case of C<cluck()> and C<confess>(), that context is a summary of every call in the call-stack; C<longmess()> returns the contents of the error message.

For a shorter message you can use C<carp()> or C<croak()> which report the error as being from where your module was called. C<shortmess()> returns the contents of this error message. There is no guarantee that that is where the error was, but it is a good educated guess.

C<Carp> takes care not to clobber the status variables C<$!> and C<$^E> in the course of assembling its error messages. This means that a C<$SIG{__DIE__}> or C<$SIG{__WARN__}> handler can capture the error information held in those variables, if it is required to augment the error message, and if the code calling C<Carp> left useful values there. Of course, C<Carp> can't guarantee the latter.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP_NOT>, then this trust relationship is identical to,
"inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.

=head2 Stack Trace formatting

At each stack level, the subroutine's name is displayed along with its parameters. For simple scalars, this is sufficient. For complex data types, such as objects and other references, this can simply display C<HASH(0x1ab36d8)>.

Carp gives two ways to control this.
item 1.

For objects, a method, `C<CARP_TRACE>`, will be called, if it exists. If this method doesn't exist, or it recurses into `C<Carp>`, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used. It is recommended that the object's type is part of the string to make debugging easier.

item 2.

For any type of reference, `C<$Carp::RefArgFormatter>` is checked (see below). This variable is expected to be a code reference, and the current parameter is passed in. If this function doesn't exist (the variable is undef), or it recurses into `C<Carp>`, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used.

item 3.

Otherwise, if neither `C<CARP_TRACE>` nor `C<$Carp::RefArgFormatter>` is available, stringify the value ignoring any overloading.

GLOBAL VARIABLES

`$Carp::MaxEvalLen`

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of `C<0>` to show all text.

Defaults to `C<0>`.

`$Carp::MaxArgLen`

This variable determines how many characters of each argument to a function to print. Use a value of `C<0>` to show the full length of the argument.

Defaults to `C<64>`.

`$Carp::MaxArgNums`

This variable determines how many arguments to each function to show. Use a false value to show all arguments to a function call. To suppress all
arguments, use C<-1> or C<'0 but true'>.

Defaults to C<8>.

=head2 $Carp::Verbose

This variable makes C<carp()> and C<croak()> generate stack backtraces just like C<cluck()> and C<confess()>.
This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

=head2 $Carp::RefArgFormatter

This variable sets a general argument formatter to display references.
Plain scalars and objects that implement C<CARP_TRACE> will not go through this formatter.
Calling C<Carp> from within this function is not supported.

local $Carp::RefArgFormatter = sub {
  require Data::Dumper;
  Data::Dumper::Dump($_[0]); # not necessarily safe
};

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error.
The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable

# These don't work
sub xyz { ... @CARP_NOT = ... } # w/o declarations above
my @CARP_NOT; # even at top-level

Example of use:

package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar { .... or _error('Wrong input') }
sub _error {
  # temporary control of where'ness, __PACKAGE__ is implicit
}
local @CARP_NOT = qw(My::Friendly::Caller);
   carp(@_)
 }

This would make C<Carp> report the error as coming from a caller not
in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides
where the error is reported from.

Use C<@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never
report an error as being from a line in a package that is internal to
Perl. For example:

   $Carp::Internal{ (__PACKAGE__) }++;
   # time passes...
   sub foo { ... or confess("whatever") };

would give a full stack backtrace starting from the first caller
outside of __PACKAGE__. (Unless that package was also internal to
Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For
generating a full stack backtrace this is the same as being internal
to Perl, the stack backtrace will not start inside packages that are
listed in C<%Carp::CarpInternal>. But it is slightly different for
the summary message generated by C<call> or C<croak>. There errors
will not be reported on any lines that are calling packages in
C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>.
Therefore the full stack backtrace from C<confess> will not start
inside of C<Carp>, and the short message from calling C<croak> is
not placed on the line where C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be
skipped that would not otherwise be when reporting where an error
occurred on a call to one of C<Carp>'s functions. It is fairly easy
to count these call frames on calls that generate a full stack
backtrace. However it is much harder to do this accounting for calls
that generate a short message. Usually people skip too many call
frames. If they are lucky they skip enough that C<Carp> goes all of
the way through the call stack, realizes that something is wrong, and
then generates a full stack backtrace. If they are unlucky then the
error is reported from somewhere misleading very high in the call
stack.

Therefore it is best to avoid C<$Carp::CarpLevel>. Instead use
C<@Carp_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>.

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently.
If called with a first argument that is a reference, they simply
call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
distribution.

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1.1206 sil-abyssinica-fonts 1.200 13.el8

1.1206.1 Available under license :
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README

Abyssinica SIL Release 1.200
December 2010
Thank you for your interest in the Abyssinica SIL font.
We hope you find it useful!

Abyssinica SIL provides glyphs for a wide range of Ethiopic and Latin.
Please read the online documentation to see what ranges are supported.

Abyssinica SIL is released under the SIL Open Font License.
Abyssinica SIL is a trademark of SIL International.

See the OFL and OFL-FAQ for details of the SIL Open Font License.
See the FONTLOG for information on this and previous releases.
See the AbyssinicaSILFontFeatures.pdf or the Abyssinica SIL FAQ
(http://scripts.sil.org/AbyssinicaSIL_Support) for frequently
asked questions and their answers.

TIPS
====

We cannot afford to offer free technical support. The font has, however,
been through some testing on various platforms to be sure it works in most
situations. In particular, it has been tested and shown to work on Windows
XP, Windows Vista and Windows 7.

If you do find a problem, please do report it to <sil_fonts AT sil DOT org>.
We can't guarantee any direct response, but will try to fix reported bugs in
future versions. Make sure you read through the
Abyssinica SIL FAQ (http://scripts.sil.org/AbyssinicaSIL_Support).

Many problems can be solved, or at least explained, through an understanding
of the encoding and use of the fonts. Here are some basic hints:

Encoding:
The fonts are encoded according to Unicode, so your application must support
Unicode text in order to access letters other than the standard alphabet.
Most Windows applications provide basic Unicode support. You will, however,
need some way of entering Unicode text into your document.

Keyboarding:
Abyssinica SIL can be used with any Unicode Ethiopic keyboarding program.
However, we have included a Keyman keyboard which you will need to download
separately (SILEthiopicKeymanKbd.kmp). You will need to install the
the Keyman program (www.tavultesoft.com) prior to installing the Keyman
keyboard. Please read the documentation (readme.html)
which comes with the keyboard to learn the keyboard sequences.
This keyboard is also provided for use with KMFL. Please read the documentation (readme.html) which comes with the keyboard to learn the keyboard sequences.

Another method of entering some symbols is provided by a few applications such as Adobe InDesign. They can display a glyph palette that shows all the glyphs (symbols) in a font and allow you to enter them by clicking on the glyph you want.

Rendering:
This font is designed to work with any of three advanced font technologies, Graphite or OpenType. To take advantage of the advanced typographic capabilities of this font, you must be using applications that provide an adequate level of support for Graphite or OpenType. See "Applications that provide an adequate level of support for SIL Unicode Roman fonts" (http://scripts.sil.org/Complex_AdLvSup).

INSTALLATION AND CONFIGURATION
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If you are not sure how to install the fonts, please see:
http://scripts.sil.org/DecompressUtil for instructions on font installations on various operating systems.

CONTACT
=======

For more information please visit the Abyssinica SIL page on SIL International's Computers and Writing systems website:
http://scripts.sil.org/AbyssinicaSIL

Or send an email to <sil_fonts AT sil DOT org>

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SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

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APPENDIX A - FONTLOG EXAMPLE

1 USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL

1.1 Can I use the fonts for a book or other print publication?
Yes. You can mention the font and author in the book's colophon if you wish, but that is not required.

1.2 Can the fonts be included with Free/Libre and Open Source Software collections such as GNU/Linux and BSD distributions?
Yes! Fonts licensed under the OFL can be freely included alongside other software under FLOSS (Free/Libre and Open Source Software) licenses. Since fonts are typically aggregated with, not merged into, existing software, there is little need to be concerned about incompatibility with existing software licenses. You may also repackage the fonts and the accompanying components in a .rpm or .deb package and include them in distribution CD/DVDs and online repositories. (Also see section 5.9 about rebuilding from source.)

1.3 I want to distribute the fonts with my program. Does this mean my program also has to be Free/Libre and Open Source Software?
No. Only the portions based on the Font Software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling with software under restricted licensing as well.

1.4 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Original Version and a Modified Version of the fonts. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, games and entertainment software, mobile device applications, etc.

1.5 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.
1.6 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential direct income to distribute their fonts under the OFL. Please honour and respect their contribution!

1.7 What about sharing OFL fonts with friends on a CD, DVD or USB stick?
You are very welcome to share open fonts with friends, family and colleagues through removable media. Just remember to include the full font package, including any copyright notices and licensing information as available in OFL.txt. In the case where you sell the font, it has to come bundled with software.

1.8 Can I host the fonts on a web site for others to use?
Yes, as long as you make the full font package available. In most cases it may be best to point users to the main site that distributes the Original Version so they always get the most recent stable and complete version. See also discussion of webfonts in Section 2.

1.9 Can I host the fonts on a server for use over our internal network?
Yes. If the fonts are transferred from the server to the client computer by means that allow them to be used even if the computer is no longer attached to the network, the full package (copyright notices, licensing information, etc.) should be included.

1.10 Does the full OFL license text always need to accompany the font?
The only situation in which an OFL font can be distributed without the text of the OFL (either in a separate file or in font metadata), is when a font is embedded in a document or bundled within a program. In the case of metadata included within a font, it is legally sufficient to include only a link to the text of the OFL on http://scripts.sil.org/OFL, but we strongly recommend against this. Most modern font formats include metadata fields that will accept the full OFL text, and full inclusion increases the likelihood that users will understand and properly apply the license.

1.11 What do you mean by ‘embedding’? How does that differ from other means of distribution?
By ‘embedding’ we mean inclusion of the font in a document or file in a way that makes extraction (and redistribution) difficult or clearly discouraged. In many cases the names of embedded fonts might also not be obvious to those reading the document, the font data format might be altered, and only a subset of the font - only the glyphs required for the text - might be included. Any other means of delivering a font to another person is considered ‘distribution’, and needs to be accompanied by any copyright notices and licensing information available in OFL.txt.

1.12 So can I embed OFL fonts in my document?
Yes, either in full or a subset. The restrictions regarding font modification and redistribution do not apply, as the font is not intended for use outside the document.

1.13 Does embedding alter the license of the document itself?
No. Referencing or embedding an OFL font in any document does not change the license of the document itself. The requirement for fonts to remain under the OFL does not apply to any document created using the fonts and their derivatives. Similarly, creating any kind of graphic using a font under OFL does not make the resulting artwork subject to the OFL.

1.14 If OFL fonts are extracted from a document in which they are embedded (such as a PDF file), what can be done with them? Is this a risk to author(s)?
The few utilities that can extract fonts embedded in a PDF will typically output limited amounts of outlines - not a complete font. To create a working font from this method is much more difficult and time consuming than finding the source of the original OFL font. So there is little chance that an OFL font would be extracted and redistributed inappropriately through this method. Even so, copyright laws address any misrepresentation of authorship. All Font Software released under the OFL and marked as such by the author(s) is intended to remain under this license regardless of the distribution method, and cannot be redistributed under any other license. We strongly discourage any font extraction - we recommend directly using the font sources instead - but if you extract font outlines from a document, please be considerate: use your common sense and respect the work of the author(s) and the licensing model.

1.15 What about distributing fonts with a document? Within a compressed folder structure? Is it distribution, bundling or embedding?
Certain document formats may allow the inclusion of an unmodified font within their file structure which consists of a compressed folder containing the various resources forming the document (such as pictures and thumbnails). Including fonts within such a structure is understood as being different from embedding but rather similar to bundling (or mere aggregation) which the license explicitly allows. In this case the font is conveyed unchanged whereas embedding a font usually transforms it from the original format. The OFL does not allow anyone to extract the font from such a structure to then redistribute it under another license. The explicit permission to redistribute and embed does not cancel the requirement for the Font Software to remain under the license chosen by its author(s).

1.16 What about ebooks shipping with open fonts?
The requirements differ depending on whether the fonts are linked, embedded or distributed (bundled or aggregated). Some ebook formats use web technologies to do font linking via @font-face, others are designed for font embedding, some use fonts distributed with the document or reading software, and a few rely solely on the fonts already present on the target system. The license requirements depend on the type of inclusion as discussed in 1.15.

1.17 Can Font Software released under the OFL be subject to URL-based access restrictions methods or DRM (Digital Rights Management) mechanisms?
Yes, but these issues are out-of-scope for the OFL. The license itself neither encourages their use nor prohibits them since such mechanisms are not implemented in the components of the Font Software but through external software. Such restrictions are put in place for many different purposes corresponding to various usage scenarios. One common example is to limit potentially dangerous cross-site scripting attacks. However, in the spirit of libre/open fonts and unrestricted writing systems, we strongly encourage open sharing and reuse of OFL fonts, and the establishment of an environment where such restrictions are unnecessary. Note that whether you wish to use such mechanisms or you prefer not to, you must still abide by the rules set forth by the OFL when using fonts released by their authors under this license. Derivative fonts must be licensed under the OFL, even if they are part of a service for which you charge fees and/or for which access to source code is restricted. You may not sell the fonts on their own - they must be part of a larger software package, bundle or subscription plan. For example, even if the OFL font is distributed in a software package or via an online service using a DRM mechanism, the user would still have the right to extract that font, use, study, modify and redistribute it under the OFL.

1.18 I've come across a font released under the OFL. How can I easily get more information about the Original Version? How can I know where it stands compared to the Original Version or other Modified Versions?
Consult the copyright statement(s) in the license for ways to contact the original authors. Consult the FONTLOG for information on how the font differs from the Original Version, and get in touch with the various contributors via the information in the acknowledgement section. Please consider using the Original Versions of the fonts whenever possible.
1.19 What do you mean in condition 4? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?

The intent is that the goodwill and reputation of the author(s) should not be used in a way that makes it sound like the original author(s) endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the author(s) in a listing of software features, or to promote a Modified Version on a web site by saying "designed by ...". However, it would be appropriate to acknowledge the author(s) if your software package has a list of people who deserve thanks. We realize that this can seem to be a grey area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the author(s) it is allowed, but if it primarily benefits other parties, or could reflect poorly on the author(s), then it is not.

2 USING OFL FONTS FOR WEBPAGES AND ONLINE WEBFONT SERVICES

2.1 Can I make webpages using these fonts?
Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended. Your three best options:
- referring directly in your stylesheet to open fonts which may be available on the user's system
- providing links to download the full package of the font - either from your own website or from elsewhere - so users can install it themselves
- using @font-face to distribute the font directly to browsers. This is recommended and explicitly allowed by the licensing model because it is distribution. The font file itself is distributed with other components of the webpage. It is not embedded in the webpage but referenced through a web address which will cause the browser to retrieve and use the corresponding font to render the webpage (see 1.11 and 1.15 for details related to embedding fonts into documents). As you take advantage of the @font-face cross-platform standard, be aware that webfonts are often tuned for a web environment and not intended for installation and use outside a browser. The reasons in favour of using webfonts are to allow design of dynamic text elements instead of static graphics, to make it easier for content to be localized and translated, indexed and searched, and all this with cross-platform open standards without depending on restricted extensions or plugins. You should check the CSS cascade (the order in which fonts are being called or delivered to your users) when testing.

2.2 Can I make and use WOFF (Web Open Font Format) versions of OFL fonts?
Yes, but you need to be careful. A change in font format normally is considered modification, and Reserved Font Names (RFNs) cannot be used. Because of the design of the WOFF format, however, it is possible to create a WOFF version that is not considered modification, and so would not require a name change. You are allowed to create, use and distribute a WOFF version of an OFL font without changing the font name, but only if:

- the original font data remains unchanged except for WOFF compression, and
- WOFF-specific metadata is either omitted altogether or present and includes, unaltered, the contents of all equivalent metadata in the original font.

If the original font data or metadata is changed, or the WOFF-specific metadata is incomplete, the font must be considered a Modified Version, the OFL restrictions would apply and the name of the font must be changed: any RFNs cannot be used and copyright notices and licensing information must be included and cannot be deleted or modified. You must come up with a unique name - we recommend one corresponding to your domain or your particular web application. Be aware that only the original author(s) can use RFNs. This is to prevent collisions between a derivative tuned to your audience and the original upstream version and so to reduce confusion.

Please note that most WOFF conversion tools and online services do not meet the two requirements listed above, and so their output must be considered a Modified Version. So be very careful and check to be sure that the tool or
service you're using is compressing unchanged data and completely and accurately reflecting the original font metadata.

2.3 What about other webfont formats such as EOT/EOTLite/CWT/etc.? In most cases these formats alter the original font data more than WOFF, and do not completely support appropriate metadata, so their use must be considered modification and RFNs may not be used.

2.4 Can I make OFL fonts available through webfont online services? Yes, you are welcome to include OFL fonts in online webfont services as long as you properly meet all the conditions of the license. The origin and open status of the font should be clear among the other fonts you are hosting. Authorship, copyright notices and license information must be sufficiently visible to your users or subscribers so they know where the font comes from and the rights granted by the author(s). Make sure the font file contains the needed copyright notice(s) and licensing information in its metadata. Please double-check the accuracy of every field to prevent contradictory information. Other font formats, including EOT/EOTLite/CWT and superior alternatives like WOFF, already provide fields for this information. Remember that if you modify the font within your library or convert it to another format for any reason the OFL restrictions apply and you need to change the names accordingly. Please respect the author's wishes as expressed in the OFL and do not misrepresent original designers and their work. Don't lump quality open fonts together with dubious freeware or public domain fonts. Consider how you can best work with the original designers and foundries, support their efforts and generate goodwill that will benefit your service. (See 1.17 for details related to URL-based access restrictions methods or DRM mechanisms).

2.5 Can I make and publish CMS themes or templates that use OFL fonts? Can I include the fonts themselves in the themes or templates? Can I sell the whole package? Yes, you are very welcome to integrate open fonts into themes and templates for your preferred CMS and make them more widely available. Be aware that you can only sell the fonts and your CMS add-on as part of a software bundle. (See 1.4 for details and examples about selling bundles).

2.6 Some webfont formats and services provide ways of "optimising" the font for a particular website or web application; is that allowed? Yes, it is permitted, but remember that these optimised versions are Modified Versions and so must follow OFL requirements like appropriate renaming. Also you need to bear in mind the other important parameters beyond compression, speed and responsiveness: you need to consider the audience of your particular website or web application, as choosing some optimisation parameters may turn out to be less than ideal for them. Subsetting by removing certain glyphs or features may seriously limit functionality of the font in various languages used by your users. It may also introduce degradation of quality in the rendering or specific bugs on the various platforms compared to the original font. In other words, remember that one person's optimised font may be another person's missing feature. Various advanced typographic features are also available through CSS and may provide the desired effects without the need to modify the font.

3 MODIFYING OFL-LICENSED FONTS

3.1 Can I change the fonts? Are there any limitations to what things I can and cannot change? You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you are not allowed to remove the copyright statement(s) from the font, but you could put additional information into it that covers your contribution.
3.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

3.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs and/or OpenType/Graphite code, can I sell the enhanced font?
Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

3.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling the font, but you will be making a valuable contribution to the community. Please remember how you have benefited from the contributions of others.

3.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use?
No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way beyond what the OFL permits and requires. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefited from the contributions of others.

3.6 Do I have to make any derivative fonts (including extended source files, build scripts, documentation, etc.) publicly available?
No, but please consider sharing your improvements with others. You may find that you receive in return more than what you gave.

3.7 If a trademark is claimed in the OFL font, does that trademark need to remain in modified fonts?
Yes, any trademark notices must remain in any derivative fonts to respect trademark laws, but you may add any additional trademarks you claim, officially registered or not. For example if an OFL font called "Foo" contains a notice that "Foo is a trademark of Acme", then if you rename the font to "Bar" when creating a Modified Version, the new trademark notice could say "Foo is a trademark of Acme Inc. - Bar is a trademark of Roadrunner Technologies Ltd.". Trademarks work alongside the OFL and are not subject to the terms of the licensing agreement. Please refer to the appropriate trademark laws.

4 LICENSING YOUR ORIGINAL FONTS UNDER THE OFL

4.1 Can I use the SIL OFL for my own fonts?
Yes! We heartily encourage everyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom along with enough artistic integrity protection for the work of the authors as well as clear rules for other contributors and those who redistribute the fonts. The licensing model is used successfully by various organisations, both for-profit and not-for-profit, to release fonts of varying levels of scope and complexity.
4.2 What do I have to do to apply the OFL to my font?
If you want to release your fonts under the OFL, we recommend you do the following:

4.2.1 Put your copyright and Reserved Font Names information at the beginning of the main OFL.txt file in place of the dedicated placeholders. Include this file in your release package.

4.2.2 Put your copyright and the OFL text with Reserved Font Names into your font files (the copyright and license fields). A link to the OFL text on the OFL web site is an acceptable (but not recommended) alternative. Also add this information to any other components (build scripts, glyph databases, documentation, test files, etc). Depending on the format of your fonts and sources, you can use template human-readable headers or machine-readable metadata.

4.2.3 Write an initial FONTLOG.txt for your font and include it in the release package.

4.2.4 Include the relevant practical documentation on the license by including the OFL-FAQ.txt in your package.

4.3 Will you make my font OFL for me?
We won't do the work for you. We can, however, try to answer your questions, unfortunately we do not have the resources to review and check your font packages for correct use of the OFL.

4.4 Will you distribute my OFL font for me?
No, although if the font is of sufficient quality and general interest we may include a link to it on our partial list of OFL fonts on the OFL web site. You may wish to consider other open font catalogs or hosting services, such as the Unifont Font Guide (http://unifont.org/fontguide), The League of Movable Type (http://theleagueofmovabletype.com), Kernest (http://kernest.com/) or the Open Font Library (http://openfontlibrary.org/), which despite the name has no direct relationship to the OFL or SIL. We do not endorse any particular catalog or hosting service - it is your responsibility to determine if the service is right for you.

4.5 Why should I use the OFL for my fonts?
- to meet needs for fonts that can be modified to support minority languages
- to provide a legal and clear way for people to respect your work but still use it (and reduce piracy)
- to involve others in your font project
- to enable your fonts to be expanded with new weights and improved writing system/language support
- to allow more technical font developers to add features to your design (such as OpenType and Graphite support)
- to renew the life of an old font lying on your hard drive with no business model
- to allow your font to be included in Libre Software operating systems like Ubuntu
- to give your font world status and wide, unrestricted distribution
- to educate students about quality typeface and font design
- to expand your test base and get more useful feedback
- to extend your reach to new markets when users see your metadata and go to your website
- to get your font more easily into one of the webfont online services
- to attract attention for your commercial fonts
- to make money through webfont services
- to make money by bundling fonts with applications
- to make money adjusting and extending existing open fonts
- to get a better chance that foundations/NGOs/charities/companies who commission fonts will pick you
- to be part of a sharing design and development community
- to give back and contribute to a growing body of font sources
5 CHOOSING RESERVED FONT NAMES

5.1 What are Reserved Font Names?
These are font names, or portions of font names, that the author has chosen to reserve for use only with the Original Version of the font, or for Modified Version(s) created by the original author.

5.2 Why can't I use the Reserved Font Names in my derivative font names? I'd like people to know where the design came from.
The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Names ensure that the only fonts that have the original names are the unmodified Original Versions. This allows designers to maintain artistic integrity while allowing collaboration to happen. It eliminates potential confusion and name conflicts. When choosing a name, be creative and avoid names that reuse almost all the same letters in the same order or sound like the original. It will help everyone if Original Versions and Modified Versions can easily be distinguished from one another and from other derivatives. Any substitution and matching mechanism is outside the scope of the license.

5.3 What do you mean by "primary name as presented to the user"? Are you referring to the font menu name?
Yes, this applies to the font menu name and other mechanisms that specify a font in a document. It would be fine, however, to keep a text reference to the original fonts in the description field, in your modified source file or in documentation provided alongside your derivative as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder(s) allow(s) it through a separate agreement). Users who install derivatives (Modified Versions) on their systems should not see any of the original Reserved Font Names in their font menus, for example. Again, this is to ensure that users are not confused and do not mistake one font for another and so expect features only another derivative or the Original Version can actually offer.

5.4 Am I not allowed to use any part of the Reserved Font Names?
You may not use individual words from the Reserved Font Names, but you would be allowed to use parts of words, as long as you do not use any word from the Reserved Font Names entirely. We do not recommend using parts of words because of potential confusion, but it is allowed. For example, if "Foobar" was a Reserved Font Name, you would be allowed to use "Foo" or "bar", although we would not recommend it. Such an unfortunate choice would confuse the users of your fonts as well as make it harder for other designers to contribute.

5.5 So what should I, as an author, identify as Reserved Font Names?
Original authors are encouraged to name their fonts using clear, distinct names, and only declare the unique parts of the name as Reserved Font Names. For example, the author of a font called "Foobar Sans" would declare "Foobar" as a Reserved Font Name, but not "Sans", as that is a common typographical term, and may be a useful word to use in a derivative font name. Reserved Font Names should also be single words. A font called "Flowing River" should have Reserved Font Names "Flowing" and "River", not "Flowing River". You also need to be very careful about reserving font names which are already linked to trademarks (whether registered or not) which you do not own.

5.6 Do I, as an author, have to identify any Reserved Font Names?
No, but we strongly encourage you to do so. This is to avoid confusion between your work and Modified Versions.

5.7 Are any names (such as the main font name) reserved by default?
No. That is a change to the license as of version 1.1. If you want any names to be Reserved Font Names, they must be specified after the copyright statement(s).

5.8 Is there any situation in which I can use Reserved Font Names for a Modified Version?
The Copyright Holder(s) can give certain trusted parties the right to use any of the Reserved Font Names through separate written agreements. For example, even if "Foobar" is a RFN, you could write up an agreement to give company "XYZ" the right to distribute a modified version with a name that includes "Foobar". This allows for freedom without confusion.

5.9 Do font rebuilds require a name change? Do I have to change the name of the font when my packaging workflow includes a full rebuild from source?
Yes, all rebuilds which change the font data and the smart code are Modified Versions and the requirements of the OFL apply: you need to respect what the Author(s) have chosen in terms of Reserved Font Names. However if a package (or installer) is simply a wrapper or a compressed structure around the final font - leaving them intact on the inside - then no name change is required. Please get in touch with the author(s) and copyright holder(s) to inquire about the presence of font sources beyond the final font file(s) and the recommended build path. That build path may very well be non-trivial and hard to reproduce accurately by the maintainer. If a full font build path is made available by the upstream author(s) please be aware that any regressions and changes you may introduce when doing a rebuild for packaging purposes is your responsibility as a package maintainer since you are effectively creating a separate branch. You should make it very clear to your users that your rebuilt version is not the canonical one from upstream.

5.10 Can I add other Reserved Font Names when making a derivative font?
Yes. List your additional Reserved Font Names after your additional copyright statement, as indicated with example placeholders at the top of the OFL.txt file. Be sure you do not remove any exiting RFNs but only add your own.

6 ABOUT THE FONTLOG

6.1 What is this FONTLOG thing exactly?
It has three purposes: 1) to provide basic information on the font to users and other developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge authors and other contributors. Please use it!

6.2 Is the FONTLOG required?
It is not a requirement of the license, but we strongly recommend you have one.

6.3 Am I required to update the FONTLOG when making Modified Versions?
No, but users, designers and other developers might get very frustrated with you if you don't. People need to know how derivative fonts differ from the original, and how to take advantage of the changes, or build on them. There are utilities that can help create and maintain a FONTLOG, such as the FONTLOG support in FontForge.

6.4 What should the FONTLOG look like?
It is typically a separate text file (FONTLOG.txt), but can take other formats. It commonly includes these four sections:

- brief header describing the FONTLOG itself and name of the font family
- Basic Font Information - description of the font family, purpose and breadth
It could also include other sections, such as: where to find documentation, how to make contributions, information on contributing organizations, source code details, and a short design guide. See Appendix A for an example FONTLOG.

7 MAKING CONTRIBUTIONS TO OFL PROJECTS

7.1 Can I contribute work to OFL projects?
In many cases, yes. It is common for OFL fonts to be developed by a team of people who welcome contributions from the wider community. Contact the original authors for specific information on how to participate in their projects.

7.2 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back in response to what you've received. Your contributions and improvements to the fonts and other components could be a tremendous help and would encourage others to contribute as well and 'give back'. You will then benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that clearly when you contribute.

7.3 I've made some very nice improvements to the font. Will you consider adopting them and putting them into future Original Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes - the use of smart source revision control systems like subversion, svk, mercurial, git or bzr is a good idea. Please follow the recommendations given by the author(s) in terms of preferred source formats and configuration parameters for sending contributions. If this is not indicated in a FONTLOG or other documentation of the font, consider asking them directly. Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them) or improved hinting. Keep in mind that some kinds of changes (esp. hinting) may be technically difficult to integrate.

7.4 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Original Version.

8 ABOUT THE LICENSE ITSELF

8.1 I see that this is version 1.1 of the license. Will there be later changes?
Version 1.1 is the first minor revision of the OFL. We are confident that version 1.1 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder(s) can re-release the font
under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

8.2 Does this license restrict the rights of the Copyright Holder(s)?
No. The Copyright Holder(s) still retain(s) all the rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder(s) may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version. Only the Copyright Holder(s) can do this.

8.3 Is the OFL a contract or a license?
The OFL is a license and not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.

8.4 I really like the terms of the OFL, but want to change it a little. Am I allowed to take ideas and actual wording from the OFL and put them into my own custom license for distributing my fonts?
We strongly recommend against creating your very own unique open licensing model. Using a modified or derivative license will likely cut you off - along with the font(s) under that license - from the community of designers using the OFL, potentially expose you and your users to legal liabilities, and possibly put your work and rights at risk. The OFL went through a community and legal review process that took years of effort, and that review is only applicable to an unmodified OFL. The text of the OFL has been written by SIL (with review and consultation from the community) and is copyright (c) 2005-2010 SIL International. You may re-use the ideas and wording (in part, not in whole) in another non-proprietary license provided that you call your license by another unambiguous name, that you do not use the preamble, that you do not mention SIL and that you clearly present your license as different from the OFL so as not to cause confusion by being too similar to the original. If you feel the OFL does not meet your needs for an open license, please contact us.

8.5 Can I translate the license and the FAQ into other languages?
SIL certainly recognizes the need for people who are not familiar with English to be able to understand the OFL and its use. Making the license very clear and readable has been a key goal for the OFL, but we know that people understand their own language best.

If you are an experienced translator, you are very welcome to translate the OFL and OFL-FAQ so that designers and users in your language community can understand the license better. But only the original English version of the license has legal value and has been approved by the community. Translations do not count as legal substitutes and should only serve as a way to explain the original license. SIL - as the author and steward of the license for the community at large - does not approve any translation of the OFL as legally valid because even small translation ambiguities could be abused and create problems.

SIL gives permission to publish unofficial translations into other languages provided that they comply with the following guidelines:

- Put the following disclaimer in both English and the target language stating clearly that the translation is unofficial:

"This is an unofficial translation of the SIL Open Font License into <language_name>. It was not published by SIL International, and does not legally state the distribution terms for fonts that use the OFL. A release under the OFL is only valid when using the original English text. However, we recognize that this unofficial translation will help users and designers not familiar with English to better understand and use the OFL. We encourage designers who consider releasing their creation under the OFL to read the OFL-FAQ in their own language if it is available. Please go to http://scripts.sil.org/OFL for the official version of the license and the accompanying OFL-FAQ."
- Keep your unofficial translation current and update it at our request if needed, for example if there is any ambiguity which could lead to confusion.

If you start such an unofficial translation effort of the OFL and OFL-FAQ please let us know.

9  ABOUT SIL INTERNATIONAL

9.1  Who is SIL International and what do they do?
SIL serves language communities worldwide, building their capacity for sustainable language development, by means of research, translation, training and materials development. SIL makes its services available to all without regard to religious belief, political ideology, gender, race, or ethnic background. SIL’s members and volunteers share a Christian commitment.

9.2  What does this have to do with font licensing?
The ability to read, write, type and publish in one’s own language is one of the most critical needs for millions of people around the world. This requires fonts that are widely available and support lesser-known languages. SIL develops - and encourages others to develop - a complete stack of writing systems implementation components available under open licenses. This open stack includes input methods, smart fonts, smart rendering libraries and smart applications. There has been a need for a common open license that is specifically applicable to fonts and related software (a crucial component of this stack), so SIL developed the SIL Open Font License with the help of the Free/Libre and Open Source Software community.

9.3  How can I contact SIL?
Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (and contact information) is at: http://scripts.sil.org/OFL

APPENDIX A - FONTLOG EXAMPLE

Here is an example of the recommended format for a FONTLOG, although other formats are allowed.

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FONTLOG for the GlobalFontFamily fonts

This file provides detailed information on the GlobalFontFamily Font Software. This information should be distributed along with the GlobalFontFamily fonts and any derivative works.

Basic Font Information

GlobalFontFamily is a Unicode typeface family that supports all languages that use the Latin script and its variants, and could be expanded to support other scripts.

NewWorldFontFamily is based on the GlobalFontFamily and also supports Greek, Hebrew, Cyrillic and Armenian.

More specifically, this release supports the following Unicode ranges...
This release contains...
Documentation can be found at...
To contribute to the project...

ChangeLog

1 August 2008 (Tom Parker) GlobalFontFamily version 1.2.1
- Tweaked the smart font code (Branch merged with trunk version)
- Provided improved build and debugging environment for smart behaviours

7 February 2007 (Pat Johnson) NewWorldFontFamily Version 1.3
- Added Greek and Cyrillic glyphs

7 March 2006 (Fred Foobar) NewWorldFontFamily Version 1.2
- Tweaked contextual behaviours

1 Feb 2005 (Jane Doe) NewWorldFontFamily Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as "NewWorldFontFamily"

1 Jan 2005 (Joe Smith) GlobalFontFamily Version 1.0
- Initial release

Acknowledgements

If you make modifications be sure to add your name (N), email (E), web-address (if you have one) (W) and description (D). This list is in alphabetical order.

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design

N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts
D: Engineer - original smart font code

N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org
D: Designer - original Roman glyphs

Fontstudio.org is an not-for-profit design group whose purpose is...
Foobar.org is a distributed community of developers...
Company.com is a small business who likes to support community designers...
University.edu is a renowned educational institution with a strong design department...

-----

Found in path(s):

No license file was found, but licenses were detected in source scan.

2010, SIL International (http://scripts.sil.org/) with Reserved Font
Names "Abyssinica" and "SIL". This Font Software is licensed under the SIL
Open Font License, Version 1.1. You should have received a copy of the license
along with this Font Software. If this is not the case, go to (http://scripts.sil.org/OFL)
for all the details including a FAQ.

Found in path(s):

No license file was found, but licenses were detected in source scan.

FONTLOG
Abyssinica SIL font family
================================

This file provides detailed information on the Abyssinica SIL font.
This information should be distributed along with the Abyssinica SIL font and
any derivative works.

Basic Font Information
------------------------

Abyssinica SIL has a single face - regular.
The goal for this product was to provide a single Unicode-based font that would contain a comprehensive inventory of glyphs needed for almost any Ethiopic-based writing system. In addition, there is provision for other Latin characters and symbols. This font makes use of state-of-the-art font technologies to support the need to position arbitrary combinations of *Ethiopic* base glyphs and combining marks optimally. It also supports almost 200 kerning pairs. This version of the font also supports 14 Stylistic Sets (OpenType) or Features (Graphite) which make glyph alternates available for a number of Ethiopic and punctuation characters. See AbyssinicaSILFontFeatures.pdf for details on applications which support Stylistic Sets and how to access them.

One font from this typeface family is included in this release:

* Abyssinica SIL Regular

ChangeLog
---------
(This should list both major and minor changes, most recent first.)

13 December 2010 (Lorna Priest) Abyssinica SIL version 1.200
- Updated for Unicode 6.0 (U+AB00..U+AB2F)
- Added Stylistic Sets and Graphite Features
- does not include AAT support

1 June 2006 (Jonathan Kew)
- AAT source added

25 May 2006 (SIL NRSI team) Abyssinica SIL version 1.0
- First version released under the SIL Open Font License

Information for Contributors
-------------------------------

The release of Abyssinica SIL version 1.0 under the OFL license provides a means for people to contribute to the project. For information on what you're allowed to change or modify, consult the OFL and OFL-FAQ. The OFL-FAQ also gives a very general rationale regarding why you would want to contribute to the project.

Anyone can make their own modified version of Abyssinica SIL (using a different name), but SIL International will continue to maintain and develop the canonical version of the Abyssinica SIL font. As the package maintainer, we warmly welcome contributions. Here are some things to keep in mind:

Format: We are open to contributions in various formats, but if you want to
maximise the chances of us including your work, please make it available to us (via email or a URL) as either a FontLab database (preferred) or a PostScript Type 1 (or OT-CFF) font.

Source files: We're including the FontLab database used in developing the font. The font, however, was not solely built from this FontLab database, so a simple "Generate Font" will not give you an identical result. The database is provided not as canonical source but as an aid to anyone who might find it useful to have access to it. For those who may find them useful, we are also providing the Graphite GDL file (ETKernComb.gdl), VOLT project files (Abyssinica_SIL.vtp, AboveMarks.vtg, Kern.vtl, Mark.vtl) and an AAT perl script (abyssinica-aat.pl - this is run with the .ttf and .xml files as input, and writes the actual table source, then runs one of Apple's font tools to compile the tables and add them to the .ttf. (So it can only be run on a Mac, with the Apple tools installed.))

Copyright attribution: If you submit something for inclusion in the main Abyssinica SIL fonts, we will ask you to affirm that it is your original work, and ask you to assign the copyright of your work to SIL International. This is to ensure that future releases can be made under improved versions of the OFL without needing to track you down for further permission. This follows the same principle used by the FSF. Keep in mind that we are a not-for-profit organization committed to free/libre and open source software, and that any contributions incorporated in the fonts will always be available under the OFL or a similar license.

Quality: Because we want to be able to guarantee a high level of quality for the primary Abyssinica SIL font, we will review submissions carefully. Please don't be discouraged if we do not include a submission for this reason, or ask you to make specific revisions.

Types of contributions: If you wish to make a contribution - a set of additional glyphs, scripts, code, etc. - please contact us before you do any work to see if it is a contribution we currently need. Every addition adds to the complexity of the project and needs to be carefully planned. This also avoids two people working on the same type of addition at the same time.

When submissions will be included: We do not have a current timetable for when an updated font will be released.

Acknowledgements

----------

(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Walt Agee, Victor Gaulney, Lorna Priest / Daniel Yacob, Kjell Magne Yri
E: fonts@sil.org
W: http://scripts.sil.org/
D: SIL designers and font engineers / non-SIL script experts

The Abyssinica SIL project is maintained by SIL International.

For more information please visit the Abyssinica SIL page on SIL International's Computers and Writing systems website:
http://scripts.sil.org/AbyssinicaSIL

Or send an email to <fonts AT sil DOT org>

Found in path(s):

1.1207 jboss-sasl 1.0.3.Final-redhat-1
1.1207.1 Available under license :

Found license 'GNU Lesser General Public License' in '# This is free software; you can redistribute it and/or modify it # under the terms of the GNU Lesser General Public License as # published by the Free Software Foundation; either version 2.1 of # the License, or (at your option) any later version. # This software is distributed in the hope that it will be useful, # but WITHOUT ANY WARRANTY; without even the implied warranty of # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU # Lesser General Public License for more details. # You should have received a copy of the GNU Lesser General Public' Found license 'GNU Lesser General Public License' in '* This is free software; you can redistribute it and/or modify it * under the terms of the GNU Lesser General Public License as * published by the Free Software Foundation; either version 2.1 of * the License, or (at your option) any later version. * This software is distributed in the hope that it will be useful, * but WITHOUT ANY WARRANTY; without even the implied warranty of * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU * Lesser General Public License for more details. * You should have received a copy of the GNU Lesser General Public'

1.1208 perl-file-path 2.15-2.el8
1.1208.1 Available under license :

No license file was found, but licenses were detected in source scan.

---
abstract: 'Create or remove directory trees'
author:
- unknown
build_requires:
  Carp: '0'
  Config: '0'
  Errno: '0'
ExtUtils::MakeMaker: '0'
Fcntl: '0'
File::Spec::Functions: '0'
SelectSaver: '0'
Test::Simple: '0.44'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: File-Path
no_index:
directory:
  - t
  - inc
requires:
  Cwd: '0'
  Exporter: '0'
  File::Basename: '0'
  File::Spec: '0'
resources:
  repository: https://github.com/jkeenan/File-Path.git
  version: '2.15'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
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NAME
File::Path - Create or remove directory trees

INSTALLATION
  perl Makefile.PL
  make
  make test
  make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
  ExtUtils::MakeMaker
To build:
  Cwd                         File::Basename
  Exporter                    File::Spec

To test:
  Carp                        File::Spec::Functions
  Config                      SelectSaver
  Cwd                         Test::More
  Errno                       Win32  # Windows only
  Fcntl

BUGS
The File-Path bug tracker is located at:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

File reports by sending email to:

  bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
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Current maintainers are Richard Elberger (riche at cpan dot org) and
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=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION
SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path('foo/bar/baz', '/zug/zwang');
@created = make_path('foo/bar/baz', '/zug/zwang', { verbose => 1,
  mode => 0711,
});
make_path('foo/bar/baz', '/zug/zwang', { chmod => 0777,
});

$removed_count = remove_tree('foo/bar/baz', '/zug/zwang', { verbose => 1,
  error => \my $err_list,
  safe => 1,
});

# legacy (interface promoted before v2.00)
@created = mkpath('/foo/bar/baz');
@created = mkpath('/foo/bar/baz', 1, 0711);
@created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
$removed_count = rmtree('/foo/bar/baz', 1, 1);
$removed_count = rmtree(['/foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
@created = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
$removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

DESCRIPTION

This module provides a convenient way to create directories of arbitrary depth and to delete
an entire directory subtree from the filesystem.

The following functions are provided:

=over

=item make_path( $dir1, $dir2, .... )

=item make_path( $dir1, $dir2, ...., \%opts )

The C<make_path> function creates the given directories if they don't exist before, much like the Unix command C<mkdir -p>.
The function accepts a list of directories to be created. Its
behaviour may be tuned by an optional hashref appearing as the last
parameter on the call.

The function returns the list of directories actually created during
the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=over

=item mode => $num

The numeric permissions mode to apply to each created directory
(defaults to C<0777>), to be modified by the current C<umask>. If the
directory already exists (and thus does not need to be created),
the permissions will not be modified.

C<mask> is recognised as an alias for this parameter.

=item chmod => $num

Takes a numeric mode to apply to each created directory (not
modified by the current C<umask>). If the directory already exists
(and thus does not need to be created), the permissions will
not be modified.

=item verbose => $bool

If present, will cause C<make_path> to print the name of each directory
as it is created. By default nothing is printed.

=item error => \$err

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store any errors that are encountered. See the L</"ERROR
HANDLING"> section for more information.

If this parameter is not used, certain error conditions may raise
a fatal error that will cause the program to halt, unless trapped
in an C<eval> block.

=item owner => $owner

=item user => $owner
=item uid => $owner

If present, will cause any created directory to be owned by C<$owner>. If
the value is numeric, it will be interpreted as a uid; otherwise a
username is assumed. An error will be issued if the username cannot be
mapped to a uid, the uid does not exist or the process lacks the
privileges to change ownership.

Ownership of directories that already exist will not be changed.

C<user> and C<uid> are aliases of C<owner>.

=item group => $group

If present, will cause any created directory to be owned by the group
C<$group>. If the value is numeric, it will be interpreted as a gid;
otherwise a group name is assumed. An error will be issued if the
group name cannot be mapped to a gid, the gid does not exist or the
process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};

=back

=item mkpath( $dir )

=item mkpath( $dir, $verbose, $mode )

=item mkpath( [$dir1, $dir2,...], $verbose, $mode )

=item mkpath( $dir1, $dir2,..., \%opt )

The C<mkpath()> function provide the legacy interface of
C<make_path()> with a different interpretation of the arguments
passed. The behaviour and return value of the function is otherwise
identical to C<make_path()>.

=item remove_tree( $dir1, $dir2, .... )

=item remove_tree( $dir1, $dir2, ...., \%opts )

The C<remove_tree> function deletes the given directories and any
files and subdirectories they might contain, much like the Unix
command C<rm -rf> or the Windows commands C<rd /s> and C<rmdir /s>.

The function accepts a list of directories to be removed. (In point of fact,
it will also accept filesystem entries which are not directories, such as 
regular files and symlinks. But, as its name suggests, its intent is to 
remove trees rather than individual files.)

C<remove_tree()>’s behaviour may be tuned by an optional hashref 
appearing as the last parameter on the call. If an empty string is 
passed to C<remove_tree>, an error will occur.

B<NOTE:> For security reasons, we strongly advise use of the 
hashref-as-final-argument syntax -- specifically, with a setting of the C<safe> 
element to a true value.

remove_tree( $dir1, $dir2, ....,

    
    safe => 1,
    ...
    # other key-value pairs

    ),

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

=item verbose => $bool

If present, will cause C<remove_tree> to print the name of each file as 
it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files 
for which the process lacks the required privileges needed to delete 
files, such as delete privileges on VMS. In other words, the code 
will make no attempt to alter file permissions. Thus, if the process 
is interrupted, no filesystem object will be left in a more 
permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories 
to be removed, except the initially specified directories. This comes 
in handy when cleaning out an application's scratch directory.

    remove_tree( '/tmp', {keep_root => 1} );

=item result => $res
If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store all files and directories unlinked
during the call. If nothing is unlinked, the array will be empty.

    remove_tree( '/tmp', { result => \my $list } );
    print "unlinked $_[" for @$list;

This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store any errors that are encountered. See the L</"ERROR
HANDLING"> section for more information.

Removing things is a much more dangerous proposition than
creating things. As such, there are certain conditions that
C<remove_tree> may encounter that are so dangerous that the only
sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with
permissions and the like), and let it die if things get out
of hand. This is the safest course of action.

=back

=item rmtree( $dir )

=item rmtree( $dir, $verbose, $safe )

=item rmtree( [ $dir1, $dir2,... ], $verbose, $safe )

=item rmtree( $dir1, $dir2,..., \%opt )

The C<rmtree()> function provide the legacy interface of
C<remove_tree()> with a different interpretation of the arguments
passed. The behaviour and return value of the function is otherwise
identical to C<remove_tree()>.

B<NOTE:> For security reasons, we strongly advise use of the
hashref-as-final-argument syntax, specifically with a setting of the C<safe>
element to a true value.

    rmtree( $dir1, $dir2, ...., \%opt )

The following error handling mechanism is consistent throughout all code paths EXCEPT in cases where the ROOT node is nonexistent. In version 2.11 the maintainers attempted to rectify this inconsistency but too many downstream modules encountered problems. In such case, if you require root node evaluation or error checking prior to calling C<make_path> or C<remove_tree>, you should take additional precautions.

If C<make_path> or C<remove_tree> encounters an error, a diagnostic message will be printed to C<STDERR> via C<carp> (for non-fatal errors) or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contain a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of C<$!> when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

```perl
remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if ($err && @$err) {
    for my $diag (@$err) {
        my ($file, $message) = %$diag;
        if ($file eq '') {
            print "general error: $message\n";
        }
        else {
            print "problem unlinking $file: $message\n";
        }
    }
}
```
else {
    print "No error encountered\n";
}

Note that if no errors are encountered, $err will reference an empty array. This means that $err will always end up TRUE; so you need to test @{$err} to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are not exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and C<remove_tree>. The old semantics are only available through C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions in the 1.x implementations of File::Path's C<rmtree> function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.
See the following pages for more information:

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
http://www.nntp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the C<safe> parameter is set (or the third parameter in the traditional interface is TRUE), should a C<remove_tree> be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

The following CVE reports were previously filed against File-Path and are believed to have been addressed:

=over 4
=item * L<http://cve.circl.lu/cve/CVE-2004-0452>
=item * L<http://cve.circl.lu/cve/CVE-2005-0448>
=back

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The C<chmod()> logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L<https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use>) between the C<stat()> that decides the inode is a directory and the C<chmod()> that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=over 4
=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only emitted if the routine is called with the traditional interface. The modern interface will remain silent if given nothing to do.

=item No such file or directory

On Windows, if C<make_path> gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

=item cannot fetch initial working directory: [errmsg]

C<remove_tree> attempted to determine the initial directory by calling C<Cwd::getcwd>, but the call failed for some reason. No attempt will be made to delete anything.

=item cannot stat initial working directory: [errmsg]

C<remove_tree> attempted to stat the initial directory (after having successfully obtained its name via C<getcwd>), however, the call failed for some reason. No attempt will be made to delete anything.

=item cannot chdir to [dir]: [errmsg]

C<remove_tree> attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete other things, but this directory will be left intact.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

C<remove_tree> recorded the device and inode of a directory, and then moved into it. It then performed a C<stat> on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory
to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.

=item cannot reset chomd [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here> and you are attempting to remove an ancestor, such as F</some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after having returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn’t the one it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writable: [errmsg]
Just before removing a directory (after having successfully removed
everything it contained), C<remove_tree> attempted to set the permissions
on the directory to ensure it could be removed and failed. Program
execution continues, but the directory may possibly not be deleted.

=\item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because
some objects that were unable to be removed remain in the directory, or
it could be a permissions issue. The directory will be left behind.

=\item cannot restore permissions of [dir] to [0nnn]: [errmsg]

After having failed to remove a directory, C<remove_tree> was unable to
restore its permissions from a permissive state back to a possibly
more restrictive setting. (Permissions given in octal).

=\item cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it
could be deleted, but failed to do so. It will, however, still attempt
to unlink the file.

=\item cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

=\item cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable
to restore the permissions on the file to a possibly less permissive
setting. (Permissions given in octal).

=\item unable to map [owner] to a uid, ownership not changed”;

C<make_path> was instructed to give the ownership of created
directories to the symbolic name [owner], but C<getpwnam> did
not return the corresponding numeric uid. The directory will
be created, but ownership will not be changed.

=\item unable to map [group] to a gid, group ownership not changed

C<make_path> was instructed to give the group ownership of created
directories to the symbolic name [group], but C<getgrnam> did
not return the corresponding numeric gid. The directory will
be created, but group ownership will not be changed.
=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be made available directly in C<File::Path>.

=item *

L<File::Find::Rule>

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swaths alone), F<File::Find::Rule> offers a convenient and flexible approach to examining directory trees.

=back

=head1 BUGS AND LIMITATIONS

The following describes F<File::Path> limitations and how to report bugs.

=head2 MULTITHREADED APPLICATIONS

F<File::Path> C<rmtree> and C<remove_tree> will not work with multithreaded applications due to its use of C<chdir>. At this time, no warning or error is generated in this situation. You will certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the F<File::Path::Tiny> module for functionality similar to F<File::Path> but which does not C<chdir>.

=head2 NFS Mount Points

F<File::Path> is not responsible for triggering the automounts, mirror mounts, and the contents of network mounted filesystems. If your NFS implementation requires an action to be performed on the filesystem in order for F<File::Path> to perform operations, it is strongly suggested you assure filesystem availability by reading the root of the mounted filesystem.
REPORTING BUGS

Please report all bugs on the RT queue, either via the web interface:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

or by email:

   bug-File-Path@rt.cpan.org

In either case, please B<attach> patches to the bug report rather than including them inline in the web post or the body of the email.

You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan O'Dea wrote an implementation for Debian that addressed the problem. That code was used as a basis for the current code. Their efforts are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for 2.07 and his advice and assistance is also greatly appreciated.

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=cut

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1.1209 file-roller 3.28.1-4.el8

1.1209.1 Available under license :

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Version 2, June 1991
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
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  jar/org/codehaus/stax2/typed/Base64Variant.java
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  jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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  jar/org/springframework/validation/BindingResult.java
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- /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
- /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/jmx/support/NotificationListenerHolder.java
- /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/validation/MessageCodesResolver.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3.jar/org/springframework/context/MessageSourceAware.java

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/**
 * [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the <code>MBeanServer</code> for bean references.
 * This FactoryBean is a direct alternative to [@link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 */
@see MBeanServerFactoryBean

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/access/DefaultLocatorFactory.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/MessageSourceAccessor.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/ui/context/HierarchicalThemeSource.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/access/ContextBeanFactoryReference.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jndi/JndiTemplateEditor.java
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  jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
  jar/org/springframework/scheduling/TaskScheduler.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
  jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
  jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
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  jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
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  jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
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  jar/org/springframework/jndi/JndiObjectLocator.java
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  jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
  jar/org/springframework/format/number/NumberFormatter.java
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  jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
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  jar/org/springframework/format/number/PercentFormatter.java

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* /opt/cola/permits/1136652810_1613848827.40/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/AbstractPropertyBindingResult.java
* /opt/cola/permits/1136652810_1613848827.40/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
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* /opt/cola/permits/1136652810_1613848827.40/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java
* /opt/cola/permits/1136652810_1613848827.40/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/LocalizedValidatorFactoryBean.java
* /opt/cola/permits/1136652810_1613848827.40/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/support/CronTrigger.java
* /opt/cola/permits/1136652810_1613848827.40/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
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1.1222 pid 2.1.1
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1.1223 jsch 0.1.55

1.1224 perl 5.26.1 6ubuntu0.5

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Julianna Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
module-Build mailing list at <module-build@perl.org>.'
builtRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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The End

#!/perl
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;
sub readme_year
    # returns the latest copyright year from the top-level README file
    {
        open my $readme, '<', '../README' or die "Opening README failed: $!";

        # The copyright message is the first paragraph:
        local $/ = '';
        my $copyright_msg = <$readme>;

        my ($year) = $copyright_msg =~ /.*\b\d{4,}\b/s
            or die "Year not found in README copyright message '$copyright_msg'";

        $year;
    }

sub v_year
    # returns the latest copyright year shown in perl -v
    {
        my $output = runperl switches => ['-v'];
        my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/i
            or die "Copyright statement not found in perl -v output '$output'";

        $year;
    }

1.1225 ledmon 0.95-1.el8
1.1225.1 Available under license:

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  jar/com/google/common/collection/ForwardingDeque.java
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  jar/com/google/common/collection/TransformedIterator.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CompactHashing.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/IncidentEdgeSet.java

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/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */
Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/Table.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/ImmutableMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/base/CommonMatcher.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ImmutableBiMapFauxverideShim.java
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jar/com/google/common/graph/package-info.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

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  jar/com/google/common/collect/SortedMultiset.java
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  jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
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  jar/com/google/common/util/concurrent/AggregateFutureState.java
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jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ConsumingQueueIterator.java
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jar/com/google/common/hash/FarmHashFingerprint64.java
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jar/com/google/common/hash/LittleEndianByteArray.java
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/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular *
* version.
*/

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jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedMap.java
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jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
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jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SingletonImmutableTable.java
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jar/com/google/common/collect/EmptyImmutableSetMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/JdkBackedImmutableSet.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/JdkBackedImmutableMultiset.java

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jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ImmutableSortedMultiset.java
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   jar/com/google/common/primitives/ImmutableLongArray.java
 * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
   jar/com/google/common/hash/AbstractHashFunction.java
 * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
   jar/com/google/common/util/concurrent/ForwardingCondition.java
 * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
   jar/com/google/common/primitives/ImmutableIntArray.java
 * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
   jar/com/google/common/primitives/ImmutableDoubleArray.java
 * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
   jar/com/google/common/util/concurrent/ForwardingLock.java

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*/
/**
* Holder for web specializations of methods of [@code Floats]. Intended to be empty for regular
* version.
*/

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jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/MultimapBuilder.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/VerifyException.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberExceptionContext.java

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 */

/* This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30

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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SortedMapDifference.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableValueGraph.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraphBuilder.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CartesianList.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/BaseEncoding.java
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 * ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/EmptyContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1110737159_1606846951.jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1110737159_1606846951.jar/com/google/common/hash/AbstractCompositeHashFunction.java
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* /opt/cola/permits/1110737159_1606846951.jar/com/google/common/collect/Queues.java
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* /opt/cola/permits/1110737159_1606846951.jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1110737159_1606846951.jar/com/google/common/hash/HashCode.java
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1.1236 free-type 2.8-14.el7

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.1238 lua-socket 3.0-0.17.rc1.el8
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  jar/org/springframework/web/bind/support/ServletServerHttpRequest.java
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1.1241 python-productmd 1.11-3.el8

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jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.1262 chkconfig 1.19.1-1.el8

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<li>Doug &lt;ummmm@myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes &lt;fstaes@netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralizedString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>

<li>W.R. Dittmer &lt;wdittmer@64cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto &lt;laperez@64banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>

<li>James Wright &lt;James.Wright@64harts-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford &lt;jim@64muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

<li>Michael Hausler &lt;haeusler@64ponton-consulting.de&gt; - extra aliases for provider.</li>

<li>Sai Pullabhotla &lt;psai@64linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

<li>Joseph Miller &lt;joseph@64digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>

<li>Lars &lt;xyz@64sagdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen &lt;jeroen@64vianvianen.nl&gt; - the Signed and Encrypted mail example.</li>

<li>Jun Sun &lt;JSun@64diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>

<li>Petr Dukem &lt;pdukem@64email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>

<li>Filipe Silva &lt;filipe.silva@64wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>

<li>Alpesh Parmar &lt;alps@64linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>

<li>Jay Gengelbach &lt;jgengelbach@64webmethods.com&gt; - patch to fix iSKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>

<li>Doug &lt;doug@64tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>

<li>Matthew Mundy &lt;mmundy1@64umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.</li>

<li>Tom Cargill &lt;cargill@64profcon.com&gt; - spelling patch in provider.</li>

<li>Breitenstrom Christian &lt;C.Breitenstrom@64t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>

<li>Zanotti Mirko &lt;zanotti@64cad.it&gt; - patch to ordered equality test for X509Name.</li>

<li>Nicola Scendonci &lt;nscendonci@64babelps.it&gt; - patch to add sorting to CertPath validation.</li>

<li>Ville Skytt&amp;auml; &lt;ville.skytta@64iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>

<li>Bruce Gordon &lt;bruce.gordon@64saviws.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
Miles Whiteley &lt;Miles.Whiteley#savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;amoliner#evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;CarlosLozano#evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javiddelgadiilo#codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;Joni.Hahkala#cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, LetFAttSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.

Rolf Schillinger &lt;rolf#sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin#yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

François Leroy &lt;Franck.Leroy#keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka &lt;ymnk#javi.org&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex#reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer#tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell#064interest.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;d.eisner#seeburger.de&gt; - initial implementation of ISO 7816-4 padding.

Julien Pasquier &lt;JulienPasquier#javi.org&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso#libero.it&gt; - sequence patch to ASN1Dump.

Andrew Paterson &lt;andrew.paterson#burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPSecretKey.

Vladimir Molotkov &lt;Vladimir.Molotkov#intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo#web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;pavelv#gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom#nux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Łukasz Kowalczyk &lt;Łukasz.B.Kowalczyk#intel.com&gt; - patches to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch#maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd#credit-suisse.de&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee#crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5#embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;tu-vi.cung#intel.com&gt; - patch for out of bounds problem in getDecoderStream.
method.</li>
<li>Chris Schultz &lt;cschultz&#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dlmlee&#064064crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees&#064064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;lbugbee&#064064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O’Rourke &lt;brianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier&#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDEN MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse &lt;david.josse&#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiko &lt;kazu-k&#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente &lt;superdupont&#064064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, &lt;olaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>Jürg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme &lt;widerstand&#064064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>
<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLOutputStream.</li>
<li>John Alfred Prufrock &lt;j.a.prufrock&#064064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen &lt;sneusatz&#064064gmail.com&gt; - initial version of RoleSyntax, improvements to
AttributeCertificateHolder and AttributeCertificateIssuer.

- fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
- initial implementation of NaccacheStern cipher.
- fix to SignatureSubpacket critical bit setting.
- extra toString() support for ASN.1 library. Initial patch for large OID components.
- support for tags > 30 in ASN.1 parsing.
- first cut of internationalisation, initial PKIX validation classes.
- main set of test vectors for Bleichenbacher's forgery attack.
- general code clean ups.
- initial threaded random seed generator, constant-time PKCS#1.5 decoding.
- initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- addition of crlAccessMethod in X509ObjectIdentifiers.
- initial implementation of RSA blinding for signatures.
- addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- additional modes and algorithm support in PEMReader.
- GnuPG compatibility changes for PBEFileProcessor.
- initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- patch for alternate data type recognision in CMSSignedDataParser.
- addition of NotationData packets for OpenPGP.
- patches towards improved Sun/default provider support in CMS.
- patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
- patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- correction to excluded DN in name constraints processing for PKIX processing.
- mask fix to single byte read in TlsInputStream.
Julien Pasquier &lt;julienpasquier&#064fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pkonnop&#064de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozd &lt;gwozdziu&#064pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow&#064org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples #BJA-55.

Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn&#064me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz&#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini&#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF.

Roelof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck&#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd&#064lemaymd.com&gt; - identified problem with EAX #BJA-93.

Alex Dupre &lt;ale&#064freebsd.org&gt; - fix to use of Signature rather than SignatureSpi in provider #BJA-90. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest #BJA-102.

Michael Schoene &lt;michael&#064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra&#064s21sec.com&gt; - fix to default partial packet generation in BCPOutputStream.


Stefan Meyer &lt;stefan.meyer&#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;rui&#064ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic&#0644mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79&#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycastle_pfitz&#064cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson&#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Ciric &lt;cagdasciric&#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23&#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henrique &lt;pmahreniques&#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer &lt;job&#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr &lt;rfarr.se&#064gmail.com&gt; initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani#064sogei.it&gt; patch for recognising multiple counter signatures.

Robin Lundgren &lt;r737lundgren#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hrsrawat#064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindeann#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home#064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom#064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kil&aring;ngs &lt;markus#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith#064cbnc.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio#064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan#064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;il.matheis#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nassche#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfmalf#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.
Liane Velten &lt;liane.velten@hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064ngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Elereiseth &lt;Elereiseth@064WPECGLYybV18Rf6Y7Vz12Lvd2EUVW99v3yNV31WROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b@yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidèn Borell &lt;samuel@primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe Ciphers/Output/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digestes, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@064primekey.se&gt; patch for working arround JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time
stamp token generation.

- Andrey Zhoin &lt;zhoin@#064dxm.ru&gt; patch for override of TSP SignerInfo attributes.
- Sergey Tiunov &lt;tt5555d&#064gmail.com&gt; initial cut of DVCS classes.
- Damian Kolasa &lt;fatfredy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.
- Ash Hughes &lt;ashley.hughes&#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
- Daniel Hirscher &lt;dev&#064#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.
- Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.
- Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.
- Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.
- Eric M&uuml;ller &lt;eric.mueller#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.
- Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.
- Andrey Utkin &lt;cindrhc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.
- Roberto Tyley &lt;roboticist#064devmue.de&gt; further work on completing gradle build.
- Waldemar Dick &lt;wdick#064devmue.de&gt; code improvement in x500 ASN.1 package.
- Sid Steward &lt;sid.steward#064pdflabs.com&gt; code improvements to ASN1Boolean.
- Alex Klyubin &lt;klyubin#064google.com&gt; AlgorithmParameters check for EC key agreement.
- Jonathan Gillett &lt;gsoc.student#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter &lt;andreas.reiter#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller &lt;kieran.miller#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli &lt;ehli#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt &lt;Daniel.Heldt#064cryptovision.com&gt; Initial support for encodable state message digests.
- Robert Bushman &lt;bouncycastle#064traxel.com&gt; Clean up of DirectKeySignature example.
- Maurice Aarts &lt;aarts#064iscure.com&gt; updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.
- KB Sriram &lt;mail_kb#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze &lt;marco#064nightlabs.de&gt; Reported verification bug in GenericSigner.
- Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;tobias.wich &#064; 064eczec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke &#064; 064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz &#064; 064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza &#064; 064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan &#064; 064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li> Axel von dem Bruch &lt;axel-vdb &#064; 064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek &#064; 064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto &#064; 064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC &#064; 064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bj&ouml;nrn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li> Dominik Sch&uuml;rmann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete &#064; 064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Tobias Wagner &lt;to.wagner &#064; 064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;siro &#064; 064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537], Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle &#064; xtreme.nl&gt; Support for DSAPrimaryParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oeording &#064; robotron.de&gt; Fixes to toString() in x509. CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer &#064; 064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles &#064; 064opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95 &#064; 064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.
Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;lukasz.deputat@064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.

André Berenguel &lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranski &lt;https://github.com/slawejaranski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77@064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

Joseph Naegle &lt;https://github.com/jnaegle&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;gizoraki@064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storoji72@064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storoji72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
<li>Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown&#064;064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu&#064;064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier&#064;064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadox fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumISEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.
<li>Moses Palmoece &lt;Henrik.Palmer@truesec.se&gt; Additional improvements to constant time comparisons.</li>
<li>Renoece; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bossen &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt; Addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; Update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>
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 * \p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * \p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
* If *.com is in the known suffixes list will not be allowed to match.
* </p>
*
* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-
jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

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This option is useful when you wish to copy part of the code of
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
      based on the Library, uncombined with any other library
      facilities. This must be distributed under the terms of the
      Sections above.

   b) Give prominent notice with the combined library of the fact
      that part of it is a work based on the Library, and explaining
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### 1.1281 zlib 1.2.3

1.1281.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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1.1283 jomolhari-fonts 0.003 24.el8

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OFL FAQ - Frequently Asked Questions about the SIL Open Font License (OFL)
Version 1.0 - 22 November 2005
(See http://scripts.sil.org/OFL for updates)

1 ABOUT USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL

1.1 Can I use the fonts in any publication, even embedded in the file?
Yes. You may use them like most other fonts, but unlike some fonts you may include an embedded subset of the fonts in your document. Such use does not require you to include this license or other files (listed in OFL condition 2), nor does it require any type of acknowledgement within the publication. Some mention of the font name within the publication information (such as in a colophon) is usually appreciated. If you wish to include the complete font as a separate file, you should distribute the full font package, including all existing acknowledgements, and comply with the OFL conditions. Of course, referencing or embedding an OFL font in any document does not change the license of the document itself. The resulting document is not a derivative anymore than a compiled program is a derivative of a compiler. Similarly, creating a graphic using an OFL font does not make the resulting artwork subject to the OFL.

1.2 Can I make web pages using these fonts?
Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended.

1.3 Can I make the fonts available to others from my web site?
Yes, as long as you meet the conditions for use (include the necessary files, don't abuse the Author(s)' names, rename Modified Versions, do not sublicense and do not sell by itself).

1.4 Can the fonts be included with free and open source software distributions (such as GNU/Linux and BSD distributions)?
Yes! The OFL is compatible with most FLOSS (Free/Libre and Open Source Software) licenses. You can also repackage the fonts and the accompanying components in a .rpm or .deb package and include them in distro CD/DVDs and online repositories.

1.5 I want to distribute the fonts with my program. Does this mean my program also has to be free and open source software?
No. Only the portions based on the font software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling also with software under restricted licensing.

1.6 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.7 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Standard Version and a Modified Version. Examples of bundling made possible
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  13077

by the OFL would include: word processors, design and publishing applications, training and educational software, edutainment software, etc.

1.8 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential income to distribute their fonts under the OFL. Please honor and respect their contribution!

1.9 I've come across a font released under the OFL. How can I easily get more information about the Standard Version? How can I know where it stands compared to the Standard Version or other Modified Versions?
Consult the copyright statement in the license for how to contact the original authors. Consult the FONTLOG for information on if and how the font differs from the Standard Version, and get in touch with the various contributors via the information in the acknowledgment section. Please consider using the Standard Versions of the fonts whenever possible.

1.10 What do you mean in condition 4? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?
The intent is that the goodwill and reputation of the authors should not be used in a way that makes it sound like the original authors endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the authors in a listing of software features, or to promote a Modified Version on a web site by saying "designed by...". However, it would be appropriate to acknowledge the authors if your software package has a list of people who deserve thanks. We realize that this can seem to be a gray area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the authors it is allowed, but if it primarily benefits other parties, or could reflect poorly on the authors, then it is not.

2 ABOUT MODIFYING OFL LICENSED FONTS

2.1 Can I change the fonts? Are there any limitations to what things I can and cannot change?
You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you could not remove the copyright statement from the font, but you could add additional information into it that covers your contribution.

2.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

2.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs and/or OpenType/Graphite code, can I sell the enhanced font?
Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

2.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling
the font, but you will be making a valuable contribution to the community. Please remember how you have benefitted from the contributions of others.

2.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use? No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefitted from the contributions of others.

2.6 Do I have to make any derivative fonts (including source code, build scripts, documentation, etc.) publicly available? No, but please do share your improvements with others. You may find that you receive more than what you gave in return.

2.7 Why can't I use the Reserved Font Name(s) in my derivative font names? I'd like people to know where the design came from. The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Name(s) ensure that the only fonts that have the original names are the unmodified Standard Versions. This eliminates potential confusion and name conflicts. When choosing a name be creative and try to avoid names that sound like the original. Keep in mind that the copyright holder can allow a specific trusted partner to use Reserved Font Name(s) through a separate written agreement.

2.8 What do you mean by "references stored in the Font Software"? Do I have to delete every reference to the Reserved Font Name(s) from inside every file I modify? No, not every reference. It would be fine, for example, to keep a text reference to the original fonts in your modified source code, as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder allows it through a separate agreement, see section 2.7). Users who install derivatives ("Modified Versions") on their systems should not see any of the original names ("Reserved Font Names") in their font menus, font properties dialogs, PostScript streams, documents that refer to a particular font name, etc. Again, this is to ensure that users are not confused and do not mistake a font for another and so expect features only another derivative or the Standard Version can actually offer. Ultimately, creating name conflicts will cause many problems for the users as well as for the designer of both the Standard and derivative versions, so please think ahead and find a good name for your own derivative. Font substitution systems like fontconfig, OpenOffice.org or Scribus will also get very confused if the name of the font they are configured to substitute to actually refers to another physical font on the user's hard drive. It will help everyone if Standard and derivative fonts can easily be distinguished from one another, and from other derivatives.

2.9 What is this FONTLOG thing exactly? It has three purposes: 1) to provide basic information on the font to users and other developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge the authors and other contributors. Please use it! See below for details on how changes should be noted.

2.10 Am I required to update the FONTLOG? No, but users, designers and other developers might get very frustrated at you if you don't! People need to know how derivative fonts differ from the originals, and how to take advantage of the changes, or build on them.
3 ABOUT THE FONTLOG

The FONTLOG can take a variety of formats, but should include these four sections:

3.1 FONTLOG for <FontFamilyName>
This file provides detailed information on the <FontFamilyName> font software. This information should be distributed along with the <FontFamilyName> fonts and any derivative works.

3.2 Basic Font Information
(Here is where you would describe the purpose and brief specifications for the font project, and where users can find more detailed documentation. It can also include references to how changes can be contributed back to the Standard Version. You may also wish to include a short guide to the design, or a reference to such a document.)

3.3 ChangeLog
(This should list both major and minor changes, most recent first. Here are some examples:)

1 Feb 2005 (Jane Doe) <NewFontFamilyName> Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as "<NewFontFamilyName>"

1 Jan 2005 (Joe Smith) <FontFamilyName> Version 1.0
- Initial release of font "<FontFamilyName>"

3.4 Acknowledgements
(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design
N: Tom Parker  
E: tom@company.com  
W: http://www.company.com/tom/projects/fonts  
D: Engineer - original smart font code

N: Joe Smith  
E: joe@fontstudio.org  
W: http://joe.fontstudio.org  
D: Designer - original Roman glyphs

(Original authors can also include information here about their organization.)

4 ABOUT MAKING CONTRIBUTIONS

4.1 Why should I contribute my changes back to the original authors?  
It would benefit many people if you contributed back to what you've received. Providing your contributions and improvements to the fonts and other components (data files, source code, build scripts, documentation, etc.) could be a tremendous help and would encourage others to contribute as well and 'give back', which means you will have an opportunity to benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that when you contribute.

4.2 I've made some very nice improvements to the font, will you consider adopting them and putting them into future Standard Versions?  
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes (the use of a centralized or distributed source revision control system like subversion or arch is a good idea). Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them).

4.3 How can I financially support the development of OFL fonts?  
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Standard Versions.

5 ABOUT THE LICENSE

5.1 I see that this is version 1.0 of the license. Will there be later changes?  
We hope that version 1.0 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder can re-release the font under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.
5.2 Can I use the SIL Open Font License for my own fonts?
Yes! We heartily encourage anyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom with some protection for the original authors and clear rules for other contributors. Some additional information is included at the end of this FAQ.

5.3 Does this license restrict the rights of the Copyright Holder?
No. The Copyright Holder still retains all rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version. Only the Copyright Holder can do this.

5.4 Is the OFL a contract or a license?
The OFL is a license and not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.

6 ABOUT SIL INTERNATIONAL

6.1 Who is SIL International and what does it do?
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7.3 Write an initial FONTLOG for your font and include it in the release package.
7.4 Include the OFL in your release package.
7.5 We also highly recommend you include the relevant practical documentation on the license by putting the OFL-
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FONTLOG
Gentium font family
========================

This file provides detailed information on the Jomolhari font. This information should be distributed along with the Jomolhari font and any derivative works.

Basic Font Information
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Jomolhari is a Tibetan script OpenType / Unicode typeface designed to print Tibetan & Dzongkha Text. It was designed and implemented by Christopher Fynn based on examples of traditional Bhutanese calligraphy.

The Jomolhari font also supports Part A of the PRC encoding for pre-composed Tibetan script.

ChangeLog
(This should list both major and minor changes, most recent first.)

2005-05-31 (Chris Fynn) alpha version 0.003c
- changed licensing to the SIL Open Font License
- included VOLT project files
- added some missing substitution lookups
- corrected some glyph names
- fixed encoding of precomposed glyphs F638 to F63F

Acknowledgements

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(D). This list is sorted by last name in alphabetical order.)

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E:
W: http://www.btinternet.com/~c.fynn/
D: Original Designer and Developer of Jomolhari font.

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1.1284 quartz 2.3.2
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

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   application-supplied function or table used by this function must
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   root function must still compute square roots.)

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In addition, mere aggregation of another work not based on the Library
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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clang-format
-------------
We introduced clang-format mandatory usage in July 2020.
If you want git blame to ignore the revision in which we did the mass change you can do

git config blame.ignoreRevsFile .git-blame-ignore-revs
on your clone

To get the clang-format warnings locally instead at CI time we recommend you
to copy the hooks/pre-commit to your .git

cp hooks/pre-commit .git/hooks/

We are using clang-format 10 on CI. Unfortunately clang-format is not totally compatible with older versions of itself. If CI gives you trouble but your local clang-format disagrees, just apply the changes suggested by CI and then commit with the --no-verify flag. If you get stuck, don't hesitate to ask the reviewer to help and they will reformat your commits :)

Merge requests
-------------

When creating a new merge request on gitlab make sure it has a clear title and the description includes any extra details that might be helpful for the reviewer, such as what the aim of the change is and decisions made during implementation.

Also, check "Allow commits from members who can merge to the target branch" as that enables rebase on landing. See the gitlab docs for details:

https://docs.gitlab.com/ee/user/project/merge_requests/allow_collaboration.html

And keep hacking on poppler!

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1.1307 urllib3 1.22
1.1307.1 Available under license :
    # Contributions to the urllib3 project

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    ## Contributors

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.
* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HttpHeaders and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance andLinting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.
* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme
* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moinl8@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.1308 golang-snappy 0.0.1

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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jloup@gzip.org          madler@alumni.caltech.edu

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Ackeret, Matt
Adler, Mark
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Anderson, Jamie
Andrew, Nick
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Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
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Boardman, Spider
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Bowes, Keith
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Brantley, Michael
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Coleman, Chris
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Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryisinger, Mike
G., Daniel Richard
Gailly, Jean-loup
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
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Chornoivan, Yuri
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1.1313 pyxdg 0.25-16.el8

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That's all there is to it!
1.1314 yelp-tools 3.28.0-3.el8

1.1314.1 Available under license:

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```xml
<xsl:stylesheet
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:mal="http://projectmallard.org/1.0/"
    xmlns:str="http://exslt.org/strings"
    xmlns:exsl="http://exslt.org/common"
    version="1.0">
    <xsl:output method="text"/>

    <xsl:param name="only" select="''"/>
    <xsl:variable name="only_" select="concat(' ', translate($only, ',', ' '), ' ')"/>
    <xsl:param name="except" select="''"/>
    <xsl:variable name="except_" select="concat(' ', translate($except, ',', ' '), ' ')"/>
    <xsl:param name="totals" select="''"/>
    <xsl:param name="site.dir"/>

    <xsl:template match="/"
        <xsl:variable name="idents">
            <xsl:if test="not(/mal:page/mal:info/mal:license)">
                none
            </xsl:if>
            <xsl:for-each select="/mal:page/mal:info/mal:license">
                <ident>
                    <xsl:call-template name="license.identifier"/>
                </ident>
            </xsl:for-each>
        </xsl:variable>
        <xsl:variable name="ident" select="concat($idents, ' ')"/>

        <xsl:if test="not($ident)">
            <ident>none</ident>
        </xsl:if>
        <ident>
            <xsl:call-template name="license.identifier"/>
        </ident>
        </xsl:template>
```
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.1342 adduser 3.116ubuntu1

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============

PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
================
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
==========================
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
-------

Here is a simple example showing a PLY implementation of a calculator
with variables.
# calc.py
#
# A simple calculator with variables.
#

tokens = (  'NAME','NUMBER',  'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  'LPAREN','RPAREN', )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'  
t_TIMES   = r'\*'  
t_DIVIDE  = r'/'  
t_EQUALS  = r'='  
t_LPAREN  = r'('  
t_RPAREN  = r')'  
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

# Precedence rules for the arithmetic operators
precedence = (  ('left','PLUS','MINUS'),  ('left','TIMES','DIVIDE'),  ('right','UMINUS'),)
# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
        | expression MINUS expression
        | expression TIMES expression
        | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name ‘%s’" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at ‘%s’" % p.value)

import ply.yacc as yacc
yacc.yacc()
while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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1.1356 popt 1.18-1.el8
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1.1357 linux-firmware 8.83.5.1_1-104.el8_5.1
This file attempts to document the origin and licensing information, if known, for each piece of firmware distributed for use with the Linux kernel.

Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd
Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

Licence: Redistributable. See LICENCE.cypress for details.

Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

Madge Ambassador ATM Adapter microcode.
Copyright (C) 1995-1999 Madge Networks Ltd.

This microcode data is placed under the terms of the GNU General Public License. The GPL is contained in /usr/doc/copyright/GPL on a Debian system and in the file COPYING in the Linux kernel source.

We would prefer you not to distribute modified versions without consultation and not to ask for assembly/other microcode source.

Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.
Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see specs on the dsp."

Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:
Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details
Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

Original licence info:

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  * with the use of SMC TokenRing adapters. There is no warranty
  * expressed or implied about its fitness for any purpose.

Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface
File: emi26/bitstream.fw  
Version: 1.1.1.131  
Info: DATE=2001dec06

File: emi26/firmware.fw  
Version: 1.0.2.916  
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:
/
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* requires the inclusion of this statement.
*/

-------------------------------------------------------------------------

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw  
Version: 1.0.0.191  
Info: DATE= 2002oct28

File: emi62/loader.fw  
Version: 1.0.2.002  
Info: DATE=10.01.2002

File: emi62/midi.fw  
Version: 1.04.062  
Info: DATE=16.10.2002
File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

---------------------------------------------------------------

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

---------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
    per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.


---------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

---------------------------------------------------------------
Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
Port 1 LED flashes when the vend_ax program is running
Port 2 LED flashes when any SETUP command arrives
Port 3 LED flashes when any valid VENDOR request occurs
Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

---------------------------------------------

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

---------------------------------------------

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

---------------------------------------------

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Licence: Distributable

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--------------------------------------------------------------------------

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

//******************************************************************************
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06
//* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//******************************************************************************

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:

//******************************************************************************
//* Edgeport Binary Image (for TI based products)
//* Generated by TIBin2C v2.00 (watchport)
/* Copyright (C) 2001 Inside Out Networks, All rights reserved.  
*******************************************************************************  

Found in hex form in kernel source.  

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin  
Source: dsp56k/bootstrap.asm  
Source: dsp56k/Makefile  
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from  
http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp  
File: sb16/alaw_main.csp  
File: sb16/ima_adpcm_init.csp  
File: sb16/ima_adpcm_playback.csp  
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
/*
 * Copyright (c) 1994 Creative Technology Ltd.
 * Microcode files for SB16 Advanced Signal Processor
 */

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin  
Version: 1.19.38 TP  
File: ql2200_fw.bin  
Version: 2.02.08 TP  
File: ql2300_fw.bin  
Version: 3.03.28 IPX  
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1-1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0
Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys

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Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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---------------------------------------------------------------

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

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---------------------------------------------------------------

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

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Found in hex form in kernel source.

---------------------------------------------------------------
Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.25.6.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.25.6.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.25.6.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.25.6.0.bin
File: cxgb4/t6fw-1.25.6.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.25.6.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

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--------------------------------------------------------------------------

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

--------------------------------------------------------------------------

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at http://alteon.shareable.org/
Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

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* notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details
Also available from http://linuxwimax.org/Download

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23
Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

--------------------------------------------------------------------------

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

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Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pierce8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.
Originates from https://github.com/NXP/mwifiex-firmware.git

-----------------------------------------------------------------------------------

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12
File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1
File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version: 16.242414.0

File: iwlwifi-7260-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version: 16.242414.0

File: iwlwifi-3160-17.ucode
Version: 17.bfb58538.0
File: iwlwifi-7265-8.ucode  
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode  
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode  
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode  
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode  
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode  
Version: 16.242414.0

File: iwlwifi-7265-17.ucode  
Version: 17.bfb58538.0

Link: iwlwifi-7265D-10.ucode -> iwlwifi-7265-10.ucode

File: iwlwifi-7265D-12.ucode  
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode  
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode  
Version: 16.242414.0

File: iwlwifi-7265D-17.ucode  
Version: 17.352738.0

File: iwlwifi-7265D-21.ucode  
Version: 21.302800.0

File: iwlwifi-7265D-22.ucode  
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode  
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode  
Version: 29.f2390aa8.0
File: iwlwifi-3168-21.ucode  
Version: 21.302800.0

File: iwlwifi-3168-22.ucode  
Version: 22.391740.0

File: iwlwifi-3168-27.ucode  
Version: 27.541033.0

File: iwlwifi-3168-29.ucode  
Version: 29.0bd89f3.0

File: iwlwifi-8000C-13.ucode  
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode  
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode  
Version: 21.302800.0

File: iwlwifi-8000C-22.ucode  
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode  
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode  
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode  
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode  
Version: 36.ca7b901d.0

File: iwlwifi-8265-21.ucode  
Version: 21.302800.0

File: iwlwifi-8265-22.ucode  
Version: 22.391740.0

File: iwlwifi-8265-27.ucode  
Version: 27.541033.0

File: iwlwifi-8265-31.ucode  
Version: 31.560484.0
File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-Qu-c0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-QuZ-a0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0.pnvm

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

-------------------------------------------------------------------------

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311fce49c5a180b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

Licence: Redistributable. See LICENSE.ipu3_firmware for details

-------------------------------------------------------------------------

Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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-------------------------------------------------------------------------

Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin
Licence:

Copyright (C) 2007 Tehuti Networks Ltd.

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-------------------------------------------------------------------------------------------------------------------------------

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:
/*
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 * COMBINATION WITH THE 3c990img.h MICROCODE SOFTWARE
Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL’d source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * waranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode. 
 * 
 * Notes:
 * - Loaded from xl_init upon adapter initialization.
 * 
 * Available from 3Com as part of their standard 3C359 driver.
 */

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

------------------------------------------------------------------

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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------------------------------------------------------------------

Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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------------------------------------------------------------------

Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis
Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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---------------------------------------------------------------------------------------------------------------------

Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.
Copyright Sierra Wireless

---------------------------------------------------------------------------------------------------------------------

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

---------------------------------------------------------------------------------------------------------------------

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

Licence: Redistributable.

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder
File: v4l-cx23885-avcore-01.fw
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Driver: cx23840 - Conexant sideport Broadcast A/V decoder
File: v4l-cx25840.fw
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Driver: qlogicpti - PTI Qlogic, ISP Driver
File: qlogic/isp1000.bin
Licence: Unknown
Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet
File: myricom/lanai.bin
Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e2-7.0.20.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.2.51.0.fw
File: bnx2x/bnx2x-e1h-7.2.51.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1h-7.8.2.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.17.0.fw
File: bnx2x/bnx2x-e1h-7.8.17.0.fw
File: bnx2x/bnx2x-e2-7.8.17.0.fw
File: bnx2x/bnx2x-e1-7.8.19.0.fw
File: bnx2x/bnx2x-e1h-7.8.19.0.fw
File: bnx2x/bnx2x-e2-7.8.19.0.fw
File: bnx2x/bnx2x-e1-7.10.51.0.fw
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Found in hex form in kernel source.

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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
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Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.


Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

Driver: snd-wavefront - ISA WaveFront sound card
File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

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Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details


Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details


Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

Licence: GPLv2. See GPL-2 for details.
Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1
Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114
File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7
Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20
Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0
Fix EEPROM radio table issue and change PID to 3005
Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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Found in hex form in kernel source.

---------------------------------------------------------------

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

---------------------------------------------------------------

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_ce.bin
File: radeon/HAINAN_mc.bin
File: radeon/HAINAN_mc2.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_ce.bin
File: radeon/BONAIRE_mc.bin
File: radeon/BONAIRE_mc2.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin
File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_mc.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_mc.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
File: radeon/HAWAII_mc2.bin
File: radeon/HAWAII_me.bin
File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
File: radeon/HAWAII_rlc.bin
File: radeon/HAWAII_sdma.bin
File: radeon/HAWAII_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_k_smc.bin
File: radeon/pitcairn_mc.bin
File: radeon/pitcairn_me.bin
File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
File: radeon/tahiti_ce.bin
File: radeon/tahiti_k_smc.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_k_smc.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_mec.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/tahiti_uvd.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/pitcairn_uvd.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
File: amdgpu/verde_me.bin
File: amdgpu/verde_pfp.bin
File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/verde_uvd.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
File: amdgpu/oland_mc.bin
File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/kaveri_mec.bin
File: amdgpu/kaveri_mec2.bin
File: amdgpu/kaveri_pfp.bin
File: amdgpu/kaveri_rlc.bin
File: amdgpu/kaveri_sdma.bin
File: amdgpu/kaveri_sdma1.bin
File: amdgpu/topaz_ce.bin
File: amdgpu/topaz_k_smc.bin
File: amdgpu/topaz_mc.bin
File: amdgpu/topaz_me.bin
File: amdgpu/topaz_mec2.bin
File: amdgpu/topaz_mec.bin
File: amdgpu/topaz_pfp.bin
File: amdgpu/topaz_rlc.bin
File: amdgpu/topaz_sdma1.bin
File: amdgpu/topaz_sdma.bin
File: amdgpu/tonga_ce.bin
File: amdgpu/tonga_k_smc.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_mec_2.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_pfp_2.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_ce_2.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_mec_2.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_pfp_2.bin
File: amdgpu/polaris11_rlc.bin
- File: amdgpu/polaris11_sdma1.bin
- File: amdgpu/polaris11_sdma.bin
- File: amdgpu/polaris11_smc.bin
- File: amdgpu/polaris11_k_smc.bin
- File: amdgpu/polaris11_k2_smc.bin
- File: amdgpu/polaris11_smc_sk.bin
- File: amdgpu/polaris11_uvd.bin
- File: amdgpu/polaris11_vce.bin
- File: amdgpu/polaris12_ce.bin
- File: amdgpu/polaris12_ce_2.bin
- File: amdgpu/polaris12_mc.bin
- File: amdgpu/polaris12_k_mc.bin
- File: amdgpu/polaris12_32_mc.bin
- File: amdgpu/polaris12_me.bin
- File: amdgpu/polaris12_me_2.bin
- File: amdgpu/polaris12_mec.bin
- File: amdgpu/polaris12_mec_2.bin
- File: amdgpu/polaris12_mec2.bin
- File: amdgpu/polaris12_mec2_2.bin
- File: amdgpu/polaris12_pfp.bin
- File: amdgpu/polaris12_pfp_2.bin
- File: amdgpu/polaris12_rlc.bin
- File: amdgpu/polaris12_sdma.bin
- File: amdgpu/polaris12_sdma1.bin
- File: amdgpu/polaris12_smc.bin
- File: amdgpu/polaris12_k_smc.bin
- File: amdgpu/polaris12_uvd.bin
- File: amdgpu/polaris12_vce.bin
- File: amdgpu/vegam_ce.bin
- File: amdgpu/vegam_me.bin
- File: amdgpu/vegam_mec.bin
- File: amdgpu/vegam_mec2.bin
- File: amdgpu/vegam_pfp.bin
- File: amdgpu/vegam_rlc.bin
- File: amdgpu/vegam_sdma.bin
- File: amdgpu/vegam_sdma1.bin
- File: amdgpu/vegam_smc.bin
- File: amdgpu/vegam_uvd.bin
- File: amdgpu/vegam_vce.bin
- File: amdgpu/vega10_acg_smc.bin
- File: amdgpu/vega10_asd.bin
- File: amdgpu/vega10_ce.bin
- File: amdgpu/vega10_gpu_info.bin
- File: amdgpu/vega10_me.bin
- File: amdgpu/vega10_mec.bin
- File: amdgpu/vega10_mec2.bin
- File: amdgpu/vega10_pfp.bin
- File: amdgpu/vega10_rlc.bin
File: amdgpu/picasso_ce.bin
File: amdgpu/picasso_gpu_info.bin
File: amdgpu/picasso_me.bin
File: amdgpu/picasso_mec.bin
File: amdgpu/picasso_mec2.bin
File: amdgpu/picasso_pfp.bin
File: amdgpu/picasso_rlc.bin
File: amdgpu/picasso_rlc_am4.bin
File: amdgpu/picasso_sdma.bin
File: amdgpu/picasso_vcn.bin
File: amdgpu/picasso_ta.bin
File: amdgpu/raven2_asd.bin
File: amdgpu/raven2_ce.bin
File: amdgpu/raven2_gpu_info.bin
File: amdgpu/raven2_me.bin
File: amdgpu/raven2_mec.bin
File: amdgpu/raven2_mec2.bin
File: amdgpu/raven2_pfp.bin
File: amdgpu/raven2_rlc.bin
File: amdgpu/raven2_sdma.bin
File: amdgpu/raven2_vcn.bin
File: amdgpu/raven2_ta.bin
File: amdgpu/navi10_asd.bin
File: amdgpu/navi10_ce.bin
File: amdgpu/navi10_gpu_info.bin
File: amdgpu/navi10_me.bin
File: amdgpu/navi10_mec.bin
File: amdgpu/navi10_mec2.bin
File: amdgpu/navi10_pfp.bin
File: amdgpu/navi10_rlc.bin
File: amdgpu/navi10_sdma.bin
File: amdgpu/navi10_sdma1.bin
File: amdgpu/navi10_smc.bin
File: amdgpu/navi10_sos.bin
File: amdgpu/navi10_vcn.bin
File: amdgpu/navi10_ta.bin
File: amdgpu/navi14_asd.bin
File: amdgpu/navi14_ce.bin
File: amdgpu/navi14_ce_wks.bin
File: amdgpu/navi14_gpu_info.bin
File: amdgpu/navi14_me.bin
File: amdgpu/navi14_me_wks.bin
File: amdgpu/navi14_mec.bin
File: amdgpu/navi14_mec_wks.bin
File: amdgpu/navi14_mec2.bin
File: amdgpu/navi14_mec2_wks.bin
File: amdgpu/navi14_pfp.bin
File: amdgpu/navi14_pfp_wks.bin
File: amdgpu/renoir_asd.bin
File: amdgpu/renoir_ce.bin
File: amdgpu/renoir_gpu_info.bin
File: amdgpu/renoir_me.bin
File: amdgpu/renoir_mec.bin
File: amdgpu/renoir_mec2.bin
File: amdgpu/renoir_pfp.bin
File: amdgpu/renoir_rlc.bin
File: amdgpu/renoir_sdma.bin
File: amdgpu/renoir_vcn.bin
File: amdgpu/renoir_dmcub.bin
File: amdgpu/renoir_ta.bin
File: amdgpu/sienna_cichlid_ce.bin
File: amdgpu/sienna_cichlid_dmcub.bin
File: amdgpu/sienna_cichlid_me.bin
File: amdgpu/sienna_cichlid_mec.bin
File: amdgpu/sienna_cichlid_mec2.bin
File: amdgpu/sienna_cichlid_pfp.bin
File: amdgpu/sienna_cichlid_rlc.bin
File: amdgpu/sienna_cichlid_sdma.bin
File: amdgpu/sienna_cichlid_smc.bin
File: amdgpu/sienna_cichlid_sos.bin
File: amdgpu/sienna_cichlid_ta.bin
File: amdgpu/sienna_cichlid_vcn.bin
File: amdgpu/green_sardine_asd.bin
File: amdgpu/green_sardine_ce.bin
File: amdgpu/green_sardine_dmcub.bin
File: amdgpu/green_sardine_me.bin
File: amdgpu/green_sardine_mec2.bin
File: amdgpu/green_sardine_mec.bin
File: amdgpu/green_sardine_pfp.bin
File: amdgpu/green_sardine_rlc.bin
File: amdgpu/green_sardine_sdma.bin
File: amdgpu/green_sardine_vcn.bin
File: amdgpu/navy_flounder_ce.bin
File: amdgpu/navy_flounder_dmcub.bin
File: amdgpu/navy_flounder_me.bin
File: amdgpu/navy_flounder_mec.bin
File: amdgpu/navy_flounder_mec2.bin
File: amdgpu/navy_flounder_pfp.bin
File: amdgpu/navy_flounder_rlc.bin
File: amdgpu/navy_flounder_sdma.bin
File: amdgpu/navy_flounder_smc.bin
File: amdgpu/navy_flounder_sos.bin
File: amdgpu/navy_flounder_ta.bin
File: amdgpu/navy_flounder_vcn.bin
File: amdgpu/arcturus_asd.bin
File: amdgpu/arcturus_gpu_info.bin
File: amdgpu/arcturus_mec2.bin
File: amdgpu/arcturus_mec.bin
File: amdgpu/arcturus_rlc.bin
File: amdgpu/arcturus_sdma.bin
File: amdgpu/arcturus_smc.bin
File: amdgpu/arcturus_sos.bin
File: amdgpu/arcturus_ta.bin
File: amdgpu/arcturus_vcn.bin
File: amdgpu/dimgrey_cavefish_ce.bin
File: amdgpu/dimgrey_cavefish_dmcub.bin
File: amdgpu/dimgrey_cavefish_me.bin
File: amdgpu/dimgrey_cavefish_mec.bin
File: amdgpu/dimgrey_cavefish_mec2.bin
File: amdgpu/dimgrey_cavefish_pfp.bin
File: amdgpu/dimgrey_cavefish_rlc.bin
File: amdgpu/dimgrey_cavefish_sdma.bin
File: amdgpu/dimgrey_cavefish_smc.bin
File: amdgpu/dimgrey_cavefish_sos.bin
File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin

Licence: Redistributable. See LICENSE.amdgpu for details.
Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

Licence: Redistributable.

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

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Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

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Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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Found in hex form in kernel source.

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Driver: qed - QLogic 4xxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset
File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0
Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III
File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1
Licence: Redistributable. Based on

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Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

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--------------------------------------------------------------------------

Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: bcm/bcm43xx-0.fw
File: bcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

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Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: bcm/bcm4329-fullmac-4.bin
File: bcm/brcmfmac43236b.bin
File: bcm/brcmfmac4329-sdio.bin
File: bcm/brcmfmac4330-sdio.bin
File: bcm/brcmfmac4334-sdio.bin
File: bcm/brcmfmac4335-sdio.bin
File: bcm/brcmfmac43241b0-sdio.bin
File: bcm/brcmfmac43241b4-sdio.bin
File: bcm/brcmfmac43241b5-sdio.bin
File: bcm/brcmfmac43242a.bin
File: bcm/brcmfmac43143.bin
File: bcm/brcmfmac43143-sdio.bin
File: bcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
File: cypress/cyfmac43570-pcie.clm_blob
Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfmac43570-pcie.clm_blob
Licence: Redistributable. See LICENCE.cypress for details.

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
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Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

------------------------------------------------

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

------------------------------------------------

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:
- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.
File: tlg2300_firmware.bin

Licence: Redistributable.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/r8712u.bin
Info: From Vendor's r8712_8188_8191_8192SU_usb_linux_v7_0.20100831
      Reverted r8188c_8192c_8192d_usb_linux_v3.4.2.3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfw_A.bin
File: rtlwifi/rtl8192cfw_B.bin
File: rtlwifi/rtl8192cfw_TMSC.bin
Info: From Vendor's rtl8188c_8192c_usb_linux_v4.0.1_6911.20130308 driver
      All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHImg.c
      Relevant variables (CONFIG_BT_COEXISTENCE not set):
      - rtlwifi/rtl8192cfw_A.bin: Rtl8192CUFwUMCAcutImgArray
      - rtlwifi/rtl8192cfw_B.bin: Rtl8192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFwTSMCImgArray

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

---------------------------------------------------------------------

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU
Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

---------------------------------------------------------------------

Driver: rt8188ee - Realtek 802.11n WLAN driver for RTL8188EE
Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

---------------------------------------------------------------------

Driver: rt8188eu - Realtek 802.11n WLAN driver for RTL8188EU
Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

---------------------------------------------------------------------

Driver: rt8821ae - Realtek 802.11n WLAN driver for RTL8812AE
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

---------------------------------------------------------------------

Driver: rt8821ae - Realtek 802.11n WLAN driver for RTL8821AE
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported
by rtw88 because the hardware arch is similar.

--------------------------------------------------------------------------

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A

File: rtw89/rtw8852a_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
File: rtlwifi/rtl8723bs_nic.bin
File: rtlwifi/rtl8723bs_ap_wowlan.bin
File: rtlwifi/rtl8723bs_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1
File: rtl_nic/rtl8168b-1.fw
Version: 0.0.2
File: rtl_nic/rtl8168b-2.fw
Version: 0.0.2
File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1
File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2
File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2
File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1
File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2
File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:
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* notice is accompanying it.

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Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-1.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------
Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusbfw


Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/ramps_0x1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

Driver: Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kkbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

--------------------------------------------------------------------------

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

--------------------------------------------------------------------------
Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4-1.0-00047
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN.RM.4.4.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Link: qcom/sdm845/wlanmdsp.mbn -> ../../ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
Licence: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp
Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3-fw.b00
File: ath11k/IPQ6018/hw1.0/m3-fw.b01
File: ath11k/IPQ6018/hw1.0/m3-fw.b02
File: ath11k/IPQ6018/hw1.0/m3-fw.flist
File: ath11k/IPQ6018/hw1.0/m3-fw.mdt
File: ath11k/IPQ6018/hw1.0/q6-fw.b00
File: ath11k/IPQ6018/hw1.0/q6-fw.b01
File: ath11k/IPQ6018/hw1.0/q6-fw.b02
File: ath11k/IPQ6018/hw1.0/q6-fw.b03
File: ath11k/IPQ6018/hw1.0/q6-fw.b04
File: ath11k/IPQ6018/hw1.0/q6-fw.b05
File: ath11k/IPQ6018/hw1.0/q6-fw.b07
File: ath11k/IPQ6018/hw1.0/q6-fw.b08
File: ath11k/IPQ6018/hw1.0/q6-fw.flist
File: ath11k/IPQ6018/hw1.0/q6-fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2
Licence: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3-fw.b00
File: ath11k/IPQ8074/hw2.0/m3-fw.b01
File: ath11k/IPQ8074/hw2.0/m3-fw.b02
File: ath11k/IPQ8074/hw2.0/m3-fw.flist
File: ath11k/IPQ8074/hw2.0/m3-fw.mdt
File: ath11k/IPQ8074/hw2.0/q6-fw.b00
File: ath11k/IPQ8074/hw2.0/q6-fw.b01
File: ath11k/IPQ8074/hw2.0/q6-fw.b02
File: ath11k/IPQ8074/hw2.0/q6-fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2
Licence: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-01740-QCAHSTSWPLZ_V2_TO_X86-1
Licence: ath11k/QCA6390/hw2.0/Notice.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENCE.myri10ge_firmware for details.

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Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

--------------------------------------------------------------------------
Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_acILowPri.pst
File: ar3k/30101coex/PS_ASIC_acIHightPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drk.fx

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

Licence: Redistributable. See LICENCE.ene_firmware for details.

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.
Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctetfx.bin
File: ctspeq.bin
Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
Version: BT_StonePeak_D1_REL_66_1167
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0522
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL0306
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0306
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-0-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.dcc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-18-16-1.sfi
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-16-1.dcc
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-12.sfi
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-12.dcc
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-0-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-0-1.dcc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.dcc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-20-0-3.sfi
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-0-3.dcc
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-3.dcc
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-4.dcc
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-0.dcc
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-1.dcc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-0-4.dcc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-16-4.dcc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-4.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL23884
File:intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL23884

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8823d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin
Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw
Licence: Redistributable.

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of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

---------------------------------------------------------------------

Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/1r192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

---------------------------------------------------------------------

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2020-11-20
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2020-11-20

License: Redistributable. See LICENSE.amd-sev for details

---------------------------------------------------------------------

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2019-12-18

License: Redistributable. See LICENSE.amd-ucode for details

--------------------------------------------------------------------------

Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

--------------------------------------------------------------------------

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

--------------------------------------------------------------------------

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

License:
Copyright (c) 2011-2013 Sagrad, Inc.
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(Please note that the actual device firmware is separately licensed)

---------------------------------------------------------------

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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---------------------------------------------------------------

Driver: qat - Intel(R) QAT crypto accelerator
File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

----------------------------------------------------------------------------------

Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

Licence:
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* as part of Linux or other Open Source operating system kernel
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----------------------------------------------------------------------------------

Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem
Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

License: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details
Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp_fw_cnl.bin -> dsp_fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details

------------------------------------------------------------------
Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

------------------------------------------------------------------
Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin
Version: v55.15
File: nvidia/tegra194/xusb.bin
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin

File: nvidia/tegra186/vic04_ucode.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucode.bin

File: nvidia/tegra194/vic.bin
Licence: Redistributable. See LICENCE.nvidia for details

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Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
File: atusb/atusb-0.3.dfu
Version: 0.3
File: atusb/rzusb-0.3.bin
Version: 0.3
Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

--------------------------------------------------------------------------------------------------------

Driver: btxca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0110.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin
Version: v1.7.2

File: liquidio/lio_210nv_nic.bin
Version: v1.7.2
File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Licence: Redistributable. See LICENCE.liquidio for details

--------------------------------------------------------------------------
Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

--------------------------------------------------------------------------
Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton
File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake
File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Tigerlake
File: i915/tgl_huc_7.0.3.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for DG1

File: i915/dg1_huc_7.7.1.bin
Version: Huc API/APB ver 7 release 1 for DG1

File: i915/adls_dmc_ver2_01.bin
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P
License: Redistributable. See LICENSE.i915 for details

-----------------------------------------------

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucodeUnload.bin -> ../../gm200/acr/ucodeUnload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucodeUnload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/acr/ucodeUnload.bin
Link: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
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File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details
Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.4

License: Redistributable. See LICENSE.atmel for details

Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENCE.ti-keystone for details.

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.
Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

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Driver: mtk_scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

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Driver: btmtk - Mediatek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

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Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.
Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200131
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2cc04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7915e - MediaTek MT7915e Wireless MACs

File: mediatek/mt7915_wm.bin
Version: 20201105
File: mediatek/mt7915_wa.bin
Version: 20201105
File: mediatek/mt7915_rom_patch.bin
Version: 20201105

Licence: Redistributable. See LICENCE.mediatek for details.

------------------------------------------------------------------------
Driver: mt7921 - MediaTek MT7921 Wireless MACs
File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20210612122717a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20210612122753

Licence: Redistributable. See LICENCE.mediatek for details.

------------------------------------------------------------------------
Driver: mt7921 - MediaTek MT7921 bluetooth chipset
File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20210223142901

Licence: Redistributable. See LICENCE.mediatek for details.

------------------------------------------------------------------------
Driver: nfp - Netronome Flow Processor
Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw -> nic/nic_AMDA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw -> nic/nic_AMDA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw
Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw
Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic_AMDA0099-0001_2x25.nffw

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File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic/nic_AMDA0099-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDA0058-0011_1x100.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0078-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDA0058-0011_1x100.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0078-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0058-0012_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
File: netronome/nic/nic_AMDA0078-0011_8x10.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw


File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0011_1x100.nffw

Version: v2.0.6.124

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--------------------------------------------------------------------------

Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

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--------------------------------------------------------------------------

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

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------------------------------------------------------------------------

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw

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Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn
File: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
File: qcom/sdm845/cdspr.jsn
File: qcom/sm8250/adsp.mbn
File: qcom/sm8250/adspr.jsn
File: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
File: qcom/sm8250/cdspr.jsn

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http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
https://github.com/andersson/pil-squasher

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
https://github.com/andersson/pil-squasher

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem.mbn
File: qcom/sdm845/modemuiw.jsn

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modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
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------------------------------------------------------------------------
Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

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Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb
File: dpaa2/mc/mc_10.10.0_ls2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
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Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

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Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h263.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sm1_hevc_mmu.bin
File: meson/vdec/sm1_vp9_mmu.bin

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Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.16.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.16.0.pkg

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File: intel/ice/ddp-comms/ice_comms-1.3.20.0.pkg

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Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin
File: inside-secure/eip197_minifw/ifpp.bin

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Driver: prestera - Marvell driver for Prestera family ASIC devices

File: mrvl/prestera/mvsw_prestera_fw-v2.0.img
File: mrvl/prestera/mvsw_prestera_fw-v3.0.img

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Driver: lt9611uxc - Lontium DSI to HDMI bridge

File: lt9611uxc_fw.bin

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Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: silabs/wfm_wf200_C0.sec
Version: 3.12.1

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1.1365 jetty-io 9.4.31.v20200723

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish
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Oracle

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4.jar/org/springframework/core/type/MethodMetadata.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4.jar/org/springframework/framework/util/xml/StaxSource.java

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  jar/org/springframework/core/style/ValueStyler.java
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1375 readline 8.0.4
1.1375.1 Available under license:
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1.1376 ws-t11 4.17.15.Final-redhat-4

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1.1377 toml 3.6.3

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1.1378 ubuntu-keyring 2018.09.18.1~18.04.2

1.1378.1 Available under license:

This is Ubuntu GNU's GnuPG keyrings of archive keys.

This package was originally put together by Michael Vogt
<michael.vogt@canonical.com>

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1.1379 perl-data-dumper 2.167-399.el8

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No license file was found, but licenses were detected in source scan.

From 9f3886c605086a67f0d92591f8e8de99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P%C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>
---
Changes |  14 +++++
Dumper.pm |  47 ++++++++--------
Dumper.xs | 167 +++++++++++++++++++++++++++++++++++++++++++++---------------
t/bugs.t |  37 +++++++++++++-
t/deparse.t |  22 ++++----
5 files changed, 207 insertions(+), 80 deletions(-)

diff --git a/Changes b/Changes
index f9ea53f..a5430d5 100644
--- a/Changes
+++ b/Changes
@@ -6,6 +6,20 @@ Changes - public release history for Data::Dumper

=over 8

+item 2,166 (Nov 29 2016)
+Reduce memory usage by not importing from Carp
+Reduce memory usage by removing unused overload require.
+
+item 2.165 (Nov 20 2016)
+
+Remove impediment to compiling under C++11.
+
+item 2.164 (Nov 12 2016)
+
+The XS implementation now handles the C<Deparse> option, so using it no
+longer forces use of the pure-Perl version.
+
=item 2.161 (Jul 11 2016)
Perl 5.12 fix/workaround until fixed PPPort release.

diff --git a/Dumper.pm b/Dumper.pm
index c71ad35..00f6326 100644
--- a/Dumper.pm
+++ b/Dumper.pm
@@ -10,16 +10,15 @@
package Data::Dumper;
BEGIN {
-    $VERSION = '2.161'; # Don't forget to set version and release
+    $VERSION = '2.167'; # Don't forget to set version and release
}               # date in POD below!
#$| = 1;
use 5.006_001;
require Exporter;
-require overload;
-use Carp;
+use Carp ();

BEGIN {
    @ISA = qw(Exporter);
@@ -70,7 +69,7 @@ $Maxrecurse = 1000     unless defined $Maxrecurse;
sub new {
    my($c, $v, $n) = @_; 
-  croak "Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
+  Carp::croak("Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
unless (defined($v) && (ref($v) eq 'ARRAY'));
$s = [] unless (defined($n) && (ref($n) eq 'ARRAY'));
@@ -170,11 +169,11 @@ sub Seen {
  $s->{seen}{$id} = [$k, $v];
} else {
-        carp "Only refs supported, ignoring non-ref item \$\$k";
+        Carp::carp("Only refs supported, ignoring non-ref item \$\$k");
    } } else { 
-        carp "Value of ref must be defined; ignoring undefined item \$\$k";
+        Carp::carp("Value of ref must be defined; ignoring undefined item \$\$k");
    } } return $s;
@@ -195,7 +194,7 @@ sub Values {
     return $s;
 }
 else {
-      croak "Argument to Values, if provided, must be array ref";
+      Carp::croak("Argument to Values, if provided, must be array ref");
 }
 }
@@ -214,7 +213,7 @@ sub Names {
     return $s;
 }
 else {
-      croak "Argument to Names, if provided, must be array ref";
+      Carp::croak("Argument to Names, if provided, must be array ref");
 }
 }
@@ -227,7 +226,6 @@ sub DESTROY {}
 sub Dump {
     return &Dumpxs
     unless $Data::Dumper::Useperl || (ref($_[0]) && $_[0]->{useperl})
-        || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})
+        || (! $IS_ASCII && $] lt 5.021_010);
@@ -439,7 +437,7 @@ sub _dump {
     if (ref($s->[sortkeys]) eq 'CODE') {
         $keys = $s->[sortkeys]($val);
     unless (ref($keys) eq 'ARRAY') {
-            carp "Sortkeys subroutine did not return ARRAYREF";
+            Carp::carp("Sortkeys subroutine did not return ARRAYREF");
             $keys = [];
         }
     }
@@ -487,16 +485,16 @@ sub _dump {
     require B::Deparse;
     my $sub = 'sub '.(B::Deparse->new)->coderef2text($val);
     $pad = $s->[sep] . $s->[pad] . $s->[apad] . $s->[xpad] x ($s->[level] - 1);
-        $sub =~ s/\n/$pad/gse;
+        $sub =~ s/\n/$pad/gs;
     $out .= $sub;
 }
 else {
-      $out .= 'sub { "DUMMY" }';
-      carp "Encountered CODE ref, using dummy placeholder" if $s->{purity};
+      carp("Encountered CODE ref, using dummy placeholder") if $s->{purity};
     }
Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
-will be used to get the source of the code reference. Using this option
-will force using the Perl implementation of the dumper, since the fast
-XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.
-
-The C<Deparse> flag makes Dump() run slower, since the XSUB
-implementation does not support it.
+Even using the C<Deparse> flag will in some cases produce results that
+behave differently after being passed to C<eval>; see the documentation
+for L<B::Deparse>.

SCALAR objects have the weirdest looking C<bless> workaround.
@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.

Gurusamy Sarathy        gsar@activestate.com

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=head1 VERSION

- Version 2.161  (July 11 2016)
+ Version 2.167  (January 4 2017)

=head1 SEE ALSO

diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
     I32 useqq;
     int use_sparse_seen_hash;
     int trailingcomma;
+    int deparse;
     ) Style;

 static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
 UV k;

     if (do_utf8
-        && ! isASCII(*s))
+        && ! isASCII(*s))
       /* Exclude non-ASCII low ordinal controls.  This should be
          * optimized out by the compiler on ASCII platforms; if not
          * could wrap it in a #ifdef EBCDIC, but better to avoid
@@ -387,11 +388,11 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
       increment = (k == 0 && *s != \0') ? UTF8SKIP(s);

 #if PERL_VERSION < 10
-    sprintf(r, "\x{"UVxf"}", k);
+    sprintf(r, "\x{" UVxf "}", k);
     r += strlenc(r);
     /* my_sprintf is not supported by ppport.h */
 #else
-    r = r + my_sprintf(r, "\x{"UVxf"}", k);
+    r = r + my_sprintf(r, "\x{" UVxf "}", k);
 #endif
     continue;
 }
@@ -505,6 +506,53 @@ sv_x(pTHX_ SV *sv, const char *str, STRLEN len, I32 n)
 return sv;
 }

+static SV *
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 13864

+deparsed_output(pTHX_SV *val)
+
+ SV *text;
+ int n;
+ dSP;
+
+ /* This is passed to load_module(), which decrements its ref count and
+  * modifies it (so we also can't reuse it below) */
+ SV *pkg = newSVpvs("B::Deparse");
+
+ load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);
+
+ SAVETMPS;
+
+ PUSHMARK(SP);
+ mXPUSHs(newSVpvs("B::Deparse"));
+ PUTBACK;
+
+ n = call_method("new", G_SCALAR);
+ SPAGAIN;
+
+ if (n != 1) {
+     croak("B::Deparse->new returned %d items, but expected exactly 1", n);
+ }
+
+ PUSHMARK(SP - n);
+ XPUSHs(val);
+ PUTBACK;
+
+ n = call_method("coderef2text", G_SCALAR);
+ SPAGAIN;
+
+ if (n != 1) {
+     croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
+ }
+
+ text = POPs;
+ SvREFCNT_inc(text); /* the caller will mortalise this */
+
+ FREETMPS;
+
+ PUTBACK;
+
+ return text;
+}
+
+ /*
* This ought to be split into smaller functions. (it is one long function since
*
it exactly parallels the perl version, which was one long thing for

```c
int i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
SPAGAIN;
if (SvTRUE(ERRSV))
  warn("WARNING(Freezer method call failed): %"SVf", ERRSV);
  PUTBACK; FREETMPS; LEAVE;
```

```c
ival = SvRV(val);
realtype = SvTYPE(ival);
#ifdef DD_USE_OLD_ID_FORMAT
  idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(ival));
#else
  id_buffer = PTR2UV(ival);
  idlen = sizeof(id_buffer);
#endif
```

```c
ilen = inamelen;
sv_setiv(ixsv, ix);
#if PERL_VERSION < 10
  (void) sprintf(iname+ilen, "%"IVdf, (IV)ix);
#else
  ilen = strlen(iname);
#endif
```

```c
iname[ilen++] = ']' ; iname[ilen] = '\0' ;
if (style->indent >= 3) {
  @ @ -886,7 +934,6 @ @ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
    SV *sname;
    HE *entry = NULL;
    char *key;
    ```
- STRLEN klen;
  SV *hval;
  AV *keys = NULL;

@@ -976,6 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
    char *nkey_buffer = NULL;
  STRLEN nticks = 0;
  SV* keysv;
+  STRLEN klen;
  STRLEN keylen;
  STRLEN nlen;
  bool do_utf8 = FALSE;
@@ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
    *seenhv,
    if (style->quotekeys || key_needs_quote(key,keylen)) {
      if (do_utf8 || style->useqq) {
-        nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
+        klen = nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
        nkey = SvPVX(retval) + ocur;
      }
    } else {
@@ -1095,9 +1143,41 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
           SvREFCNT_dec(totpad);
    }
  else if (realtype == SVt_PVCV) {
-    sv_catpvs(retval, "sub { "DUMMY" }");
-    if (style->purity)
-      warn("Encountered CODE ref, using dummy placeholder");
+    if (style->deparse) {
+      SV *deparsed = sv_2mortal(deparsed_output(aTHX_ val));
+      SV *fullpad = sv_2mortal(newSVsv(style->sep));
+      const char *p;
+      STRLEN plen;
+      132 i;
+      + sv_catsv(fullpad, style->pad);
+      sv_catsv(fullpad, apad);
+      for (i = 0; i < level; i++) {
+        sv_catsv(fullpad, style->xpad);
+      }
+      + sv_catpvs(retval, "sub ");
+      p = SvPV(deparsed, plen);
+      while (plen > 0) {
+        const char *nl = (const char *) memchr(p, '\n', plen);
    if (!nl) {
        sv_catpvn(retval, p, plen);
        break;
    }
    else {
        size_t n = nl - p;
        sv_catpvn(retval, p, n);
        sv_catsv(retval, fullpad);
        p += n + 1;
        plen -= n + 1;
    }
    }
    }
    else {
        sv_catpvs(retval, "sub { "DUMMY" });
        if (style->purity)
            warn("Encountered CODE ref, using dummy placeholder");
    }
}
else {
    warn("cannot handle ref type %d", (int)realtype);
@@ -1144,7 +1224,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
            *seenhv,
            if (namelen) {
                #ifdef DD_USE_OLD_ID_FORMAT
-                idlen = my_snprintf(id, sizeof(id), "0x%"UVxf, PTR2UV(val));
+                idlen = my_snprintf(id, sizeof(id), "0x%" UVxf, PTR2UV(val));
                #else
                    id_buffer = PTR2UV(val);
                    idlen = sizeof(id_buffer);
@@ -1184,9 +1264,9 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
                            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, SvIV(val));
                        else
                            len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, SvIV(val));
                    if (SvPOK(val)) {
                        /* Need to check to see if this is a string such as ” 0”. */
                        I'm assuming from sprintf isn't going to clash with utf8. */
@@ -1412,53 +1492,55 @@ Data_Dumper_Dumpxs(href, ...)
                            && (hv = (HV*)SvRV((SV*)href))
                            && SvTYPE(hv) == SVt_PVHV){
if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
    seenhv = (HV*)SvRV(*svp);
else
    style.use_sparse_seen_hash = 1;
if ((svp = hv_fetch(hv, "noseen", 6, FALSE)) && SvROK(*svp))
    style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
    todumpav = (AV*)SvRV(*svp);
if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
    namesav = (AV*)SvRV(*svp);
if ((svp = hv_fetch(hv, "indent", 6, FALSE)) && SvROK(*svp))
    style.indent = SvIV(*svp);
if ((svp = hv_fetch(hv, "purity", 6, FALSE)) && SvROK(*svp))
    style.purity = SvIV(*svp);
if ((svp = hv_fetch(hv, "terse", 5, FALSE)) && SvROK(*svp))
    terse = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "useqq", 5, FALSE)) && SvROK(*svp))
    style.useqq = SvTRUE(*svp);
if ((svp = hv_fetch(hv, "pad", 3, FALSE)) && SvROK(*svp))
    style.pad = *svp;
if ((svp = hv_fetch(hv, "xpad", 4, FALSE)) && SvROK(*svp))
    style.xpad = *svp;
if ((svp = hv_fetch(hv, "apad", 4, FALSE)) && SvROK(*svp))
    apad = *svp;
if ((svp = hv_fetch(hv, "sep", 3, FALSE)) && SvROK(*svp))
    style.sep = *svp;
if ((svp = hv_fetch(hv, "pair", 4, FALSE)) && SvROK(*svp))
    style.pair = *svp;
if ((svp = hv_fetch(hv, "varname", 7, FALSE)) && SvROK(*svp))
    varname = *svp;
if ((svp = hv_fetch(hv, "freezer", 7, FALSE)) && SvROK(*svp))
    style.freezer = *svp;
if ((svp = hv_fetch(hv, "toaster", 7, FALSE)) && SvROK(*svp))
+if ((svp = hv_fetchs(hv, "toaster", FALSE)))
    style.toaster = *svp;
-if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
    style.deepcopy = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
    style.quotekeys = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+                if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
        style.trailingcomma = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
+                if ((svp = hv_fetchs(hv, "bless", FALSE)))
        style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "maxdepth", FALSE)))
    style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+if ((svp = hv_fetchs(hv, "maxrecurse", FALSE)))
    style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+        if ((svp = hv_fetchs(hv, "sortkeys", FALSE))) {
            SV *sv = *svp;
            if (! SvTRUE(sv))
                style.sortkeys = NULL;
+            else {
                STRLEN nchars;
                -sv_setpvn(name, "$", 1);
                +sv_setpvs(name, "$");
                sv_catsv(name, varname);
                -nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, (IV)(i+1));
                +nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf,
                                 (IV)(i+1));
                sv_catpvn(name, tmpbuf, nchars);
                }
+            } else {
                STRLEN nchars;
                -sv_setpvn(name, "$", 1);
                +sv_setpvs(name, "$");
                sv_catsv(name, varname);
                -nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, (IV)(i+1));
                +nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf,
                                 (IV)(i+1));
                sv_catpvn(name, tmpbuf, nchars);
                }
            }
            sv_catpvs(retval, ";");
            sv_catsv(retval, style.sep);
            }
            - sv_setpvn(valstr, "", 0);
            + SvPVCLEAR(valstr);
            if (gimme == G_ARRAY) {
                XPUSHs(sv_2mortal(retval));
            }
if (i < imax)/* not the last time thro ? */
diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
--- a/t/bugs.t
+++ b/t/bugs.t
@@ -12,7 +12,7 @@ BEGIN {
}

use strict;
-use Test::More tests => 15;
+use Test::More tests => 24;
use Data::Dumper;

{
@@ -144,4 +144,39 @@ SKIP: {
    my $want;
    my $runtime = "runtime";
    my $requires = "requires";
+    utf8::upgrade(my $runtime = $runtime);
+    utf8::upgrade(my $requires = $requires);
+    for my $run ($runtime, $uruntime) {
+        for my $req ($requires, $urequires) {
+            my $data = { $run => { $req => { foo => "bar" } } };
+            local $Data::Dumper::Useperl = 1;
+            # we want them all the same
+            defined $want or $want = Dumper($data);
+            is(Dumper( $data ), $want, "utf-8 indents");
+        }
+    }
+}
+{ # https://rt.perl.org/Ticket/Display.html?id=128524
+    my $want;
+    my $runtime = "runtime";
+    my $requires = "requires";
+    utf8::upgrade(my $runtime = $runtime);
+    utf8::upgrade(my $requires = $requires);
+    for my $run ($runtime, $uruntime) {
+        for my $req ($requires, $urequires) {
+            my $data = { $run => { $req => { foo => "bar" } } };
+            local $Data::Dumper::Useperl = 1;
+            # we want them all the same
+            defined $want or $want = Dumper($data);
+            is(Dumper( $data ), $want, "utf-8 indents");
+        }
+    }
+}
+{ # RT#130487 - stack management bug in XS deparse
+    skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
+    sub rt130487_args { 0 + @_ }
+    my $code = sub {};
+    local $Data::Dumper::Useperl = 0;
+    }
use Data::Dumper;
-use Test::More tests => 8;
+use Test::More tests => 16;
use lib qw( ./t/lib );
use Testing qw( _dumptostr );

@@ -15,7 +15,7 @@ BEGIN {
  use strict;

  my ($obj, %dumps, $deparse, $starting);
  use strict;
  my $struct = { foo => "bar\nbaz", quux => sub { "fleem" } };
@@ -24,7 +24,11 @@ note("$Data::Dumper::Deparse and Deparse()");
  $dumps{'objzero'} = _dumptostr($obj);

  is($dumps{'noprev'}, $dumps{'dddzero'},
-    "No previous setting and $Data::Dumper::Deparse = 0 are equivalent");
+    "No previous setting and $Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)");
  is($dumps{'noprev'}, $dumps{'objempty'},
-    "No previous setting and Deparse() are equivalent");
+    "No previous setting and Deparse() are equivalent (useperl=$useperl)");
  is($dumps{'noprev'}, $dumps{'objzero'},
-    "No previous setting and Deparse(0) are equivalent");
+    "No previous setting and Deparse(0) are equivalent (useperl=$useperl)");

  local $Data::Dumper::Deparse = 1;
  $obj = Data::Dumper->new( [ $struct ] );
@@ -62,19 +64,19 @@ note("$Data::Dumper::Deparse and Deparse()");
  $dumps{'objone'} = _dumptostr($obj);
is($dumps{'dddtrue'}, $dumps{'objone'},
- "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent");
+ "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)";

isnt($dumps{'dddzero'}, $dumps{'dddtrue'},
- "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1");
+ "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)";

like($dumps{'dddzero'},
    qr/quux.*?sub.*?DUMMY/s,
- "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef");
+ "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)";

unlike($dumps{'dddtrue'},
    qr/quux.*?sub.*?DUMMY/s,
- "\$Data::Dumper::Deparse = 1 does not report DUMMY");
+ "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)";

like($dumps{'dddtrue'},
    qr/quux.*?use\sstrict.*?fleem/s,
- "\$Data::Dumper::Deparse = 1 deparses coderef");
+ "\$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)"
}
- t
- inc
requires: {}
resources:
  MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
  bugtracker: http://rt.perl.org/perlbug/
  repository: 'git://perl5.git.perl.org/perl.git perl-git'
  version: '2.161'

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
 ------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.31

Automatically created by Devel::PPPort running under perl 5.022001.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

 ------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

    --help     show short help
    --version  show version
    --patch=file write one patch file with changes
--copy=suffix               write changed copies with suffix
--diff=program              use diff program and options

--compat-version=version    provide compatibility with Perl version
--cplusplus                 accept C++ comments

--quiet                     don't output anything except fatal errors
--nodiag                    don't show diagnostics
--nohints                   don't show hints
--nochanges                 don't suggest changes
--nofilter                  don't filter input files

--strip                     strip all script and doc functionality from
                            pppport.h

--list-provided             list provided API
--list-unsupported          list unsupported API
--api-info=name             show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.
If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl pppport.h --list-provided

to see which API elements are provided by pppport.h.
You should avoid using deprecated parts of the API. For example, using global Perl variables without the `C<PL_>` prefix is deprecated. Also, some API functions used to have a `C<perl_>` prefix. Using this form is also deprecated. You can safely use the supported API, as `F<ppport.h>` will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `F<ppport.h>`.

These functions or variables will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PL_parser</code></td>
<td><code>NEED_PL_parser</code></td>
<td><code>NEED_PL_parser_GLOBAL</code></td>
</tr>
<tr>
<td><code>PL_signals</code></td>
<td><code>NEED_PL_signals</code></td>
<td><code>NEED_PL_signals_GLOBAL</code></td>
</tr>
<tr>
<td><code>caller_cx()</code></td>
<td><code>NEED_caller_cx</code></td>
<td><code>NEED_caller_cx_GLOBAL</code></td>
</tr>
<tr>
<td><code>eval_pv()</code></td>
<td><code>NEED_eval_pv</code></td>
<td><code>NEED_eval_pv_GLOBAL</code></td>
</tr>
<tr>
<td><code>grok_bin()</code></td>
<td><code>NEED_grok_bin</code></td>
<td><code>NEED_grok_bin_GLOBAL</code></td>
</tr>
<tr>
<td><code>grok_hex()</code></td>
<td><code>NEED_grok_hex</code></td>
<td><code>NEED_grok_hex_GLOBAL</code></td>
</tr>
<tr>
<td><code>grok_numeric_radix()</code></td>
<td><code>NEED_grok_numeric_radix</code></td>
<td><code>NEED_grok_numeric_radix_GLOBAL</code></td>
</tr>
<tr>
<td><code>grok_oct()</code></td>
<td><code>NEED_grok_oct</code></td>
<td><code>NEED_grok_oct_GLOBAL</code></td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:
perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 13879
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.31;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[[\w.]+\]/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '\[ \t\]'; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options\n";
}
if ($opt{version}) {
    print "This is $0 $VERSION
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($Sr,$v,$Ss) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}\n";
    }
    die "Only Perl 5 is supported\n" if $Sr != 5;
    die "Invalid version number: $opt{'compat-version'} if $Sr >= 1000 || $Ss >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $Sr, $v, $Ss;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+|[^|]+|[^|]+|\w+$/ ? ( $1 => {  
        ($2 ? ( base => $2 ) : ()),
        ($3 ? ( todo => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    )) : die "invalid spec: $_\n" } qw(
    ASCII_TO_NEED|5.007001
    AvFILLp|5.004050
    AvFILL
    BhkDISABLE|5.021008
    BhkENABLE|5.021008
    BhkENTRY_set|5.021008
    BhkENTRY
    BhkFLAGS
    CALL_BLOCK_HOOKS
    CLASS
    CPERLscope|5.005000
    CX_CURPAD_SAVE
    CX_CURPAD_SV
    CopFILEAV|5.006000
    CopFILEGV_set|5.006000
    CopFILEGV|5.006000
    CopFILEGV|5.006000
    CopFILE_set|5.006000
    CopFILE_set|5.006000
    CopFILE_set|5.006000
}
PL_in_my|5.021008||p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.021008||p
PL_lex Stuff|5.021008||p
PL_linestr|5.021008||p
PL_modglobal|5.005000||n
PL_na|5.004050||p
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook|5.011000||n
PL_parser|5.009005||p
PL_peepp|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp|5.013005||n
PL_rsfp_filters|5.021008||p
PL_rsfp|5.021008||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||p
PL_sv_undef|5.004050||p
PL_sv_yes|5.004050||p
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.021008||p
POP_MULTICALL|5.021008|
POPi|||n
POPi|||n
POPn|||n
POPphytex|5.007001||n
POPpx|5.005030||n
POPp|||n
POPs|||n
PTR21V|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK||
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
Perl_signbit||5.009005|n
PoisonFree||5.009004|p
PoisonNew||5.009004|p
PoisonWith||5.009004|p
Poison||5.008000|p
READ_XDIGIT||5.017006|
RETVAL||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEF SV||5.004050|p
SPAGAIN||
SP||
START_EXTERN_C||5.005000|p
START_MY_CTX||5.007003|p
STMT_END|||p
STMT_START|||p
STR_WITH_LEN||5.009003|p
ST||
SV_CONST_RETURN||5.009003|p
SV_COW DROP PV||5.008001|p
SV_COW_SHARED HASH KEYS||5.009005|p
SV_GMAGIC||5.007002|p
SV_HAS TRAILING NUL||5.009004|p
SV_IMMEDIATE_UNREF||5.007001|p
SV_MUTABLE_RETURN||5.009003|p
SV_NOSTEAL||5.009002|p
SV_SMAGIC||5.009003|p
SV_UTF8 NO_ENCODING||5.008001|p
SVfARG||5.009005|p
SVf_UTF8||5.006000|p
SVi||5.006000|p
SVt_INV LIST||5.019002|
SVt_IV|||
SVt_NULL|||
SVt_NV|||
SVt_PVAV|||
SVt_PVCV||
SVt_PVFM||
SVt_PVGV||
SVt_PVHV||
SVt_PVIO||
SVt_PVIV||
SVt_PVLV||
SVt_PVMG||
SVt_PVNV||
SVt_PV||
SVt_REGEXP[5.011000]
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_ro||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050]|p
SvGROW||
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off||
SvIOK_only_UV[5.006000]
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg[5.009001]|p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set||
SvLEN||
SvLOCK[5.007003]
SvMAGIC_set[5.009003]|p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
XS
XopDISABLE[5.021008]
XopENABLE[5.021008]
XopENTRYCUSTOM[5.021008]
XopENTRY_set[5.021008]
XopENTRY[5.021008]
XopFLAGS[5.013007]
ZeroD[5.009002]
p
Zero]
_aMY_CXT[5.007003]
_add_range_to_invlist||
_append_range_to_invlist||
_core_swash_init||
_get_encoding||
_get_regclass_nonbitmap_data||
_get_swash_invlist||
_invlist_array_init||
_invlist_contains_cp||
_invlist_contents||
_invlist_dump||
_invlist_intersection_maybe_complement_2nd||
_invlist_intersection||
_invlist_invert||
_invlist_len||
_invlist_populate_swash||
_invlist_search||
_invlist_subtract||
_invlist_union_maybe_complement_2nd||
_invlist_union||
_is_cur_LC_category_utf8||
_is_in_locale_category[5.021001]
_is_uni_FOO[5.017008]
_is_uni_perl_idcont[5.017008]
_is_uni_perl_idstart[5.017007]
_is_utf8_FOO[5.017008]
_is_utf8_char_slow[5.021001]
_is_utf8_idcont[5.021001]
_is_utf8_idstart[5.021001]
_is_utf8_mark[5.017008]
_is_utf8_perl_idcont[5.017008]
_is_utf8_perl_idstart[5.017007]
_is_utf8_xidcont[5.021001]
_is_utf8_xidstart[5.021001]
_load_PL_utf8_foldclosures||
_make_exactf_invlist||
_new_invlist_C_array||
_new_invlist||
pMY_CXT[5.007003]
cophh_store_pvs|5.013007|
cophh_store_pv|5.013007|
cophh_store_sv|5.013007|
core_prototype||
coresub_op||

could_it_be_a.POSIX_class

create_eval_scope||

croak_memory_wrap|5.019003|
croak_no_mem||n
croak_no_modity|5.013003|
croak_nocontext|vn
croak_popstack||n
croak_sv|5.013001|
croak_xs_usage|5.010001|
croak|v

csighandler|5.009003|
current_re_engine||
curse||
custom_op_desc|5.007003|
custom_op_get_field||
custom_op_name|5.007003|
custom_op_register|5.013007|
custom_op_xop|5.013007|

cv_ckproto_len_flags||
cv_clone_into||
cv_clone||
cv_const_sv_or_av||n
cv_const_sv|5.003070|

cv_dump||
cv_forget_slab||
cv_get_call_checker|5.013006|
cv_name|5.021005|
cv_set_call_checker_flags|5.021004|
cv_set_call_checker|5.013006|
cv_undef_flags||
cv_undef||
cvgv_from_hek||
cvgv_set||
cvstash_set||

cx_dump|5.005000|

cx_dup||

cxinc||
dAXMARK|5.009003|
dAX|5.007002|
dITEMS|5.007002|
dMARK||
dMULTICALL|5.009003|
dMY_CXT_SV|5.007003||p
dMY_CXT|5.007003||p
dNOOP|5.006000||p
dORIGMARK||
dSP||
dTHR|5.004050||p
dTHXR|5.021008||p
dTHXa|5.006000||p
dTHXoa|5.006000||p
dTHX|5.006000||p
dUNDERBAR|5.009002||p
dVAR|5.009003||p
dxct|5.009002||p
dXSARGS||
dXSI32||
dXSTAR|5.006000||p
deb_curcv||
deb_nocontext||vn
deb_stack_all||
deb_stack_n||
debop|5.005000|
debprof|5.005000|
debprofdump|5.005000|
debstackptrs|5.007003|
debstack|5.007003|
debug_start_match||
deb|5.007003|
dedefelem_target||
del_sv||
del_mHooks||
del_hooks||
deprecated_commaless_var_list||
despach_signals|5.007001|
destroy_matcher||
die_nocontext||vn
die_sv|5.013001|
die_unwind||
die|vn
dirp_dup||
div128||
djSP||
do_aexec5||
do_aexec||
do_aspawn||
do_binmode|5.004050|
do_chomp||
do_close||
do_delete_local||
get_c_backtrace_dump
get_c_backtrace
get_context[5.006000]n
get_cvn_flags[5.009005]p
get_cvs[5.011000]p
get_cv[5.006000]p
get_db_sub
get_debug_opts
get_hash_seed
get_hv[5.006000]p
get_invlist_iter_addr
get_invlist_offset_addr
get_invlist_previous_index_addr
get_mstats
get_no_modify
get_num
get_op_descs[5.005000]n
get_op_names[5.005000]n
get_opargs
get_ppaddr[5.006000]p
get_re_arg
get_sv[5.006000]p
get_vtbl[5.005030]
getcwd_sv[5.007002]n
getenv_len
glob_2number
glob_assign_glob
gp_dup
gp_free
gp_ref

grok_atoUV

grok_bin[5.007003]p
grok_bslash_N

grok_bslash_c

grok_bslash_o

grok_bslash_x

grok_hex[5.007003]p
grok_infnan[5.021004]
grok_number_flags[5.021002]
grok_number[5.007002]p
grok_numeric_radix[5.007002]p
grok_oct[5.007003]p
group_end

gv_AVadd

gv_HVadd

gv_IOadd

gv_SVadd

gv_add_by_type[5.011000]n
hv_placeholders_get|5.009003|
hv_placeholders_p||
hv_placeholders_set|5.009003|
hv_rand_set|5.018000|
hv_riter_p|5.009003|
hv_riter_set|5.009003|
hv_scalar|5.009001|
hv_store_ent|5.003070|
hv_store_flags|5.008000|
hv_stores|5.009004|p
hv_store||
hv_undef_flags||
hv_undef||
ibcmp_locale|5.004000|
ibcmp_utf8|5.007003|
ibcmp||
incline||
incpush_if_exists||
incpush_use_sep||
incpush||
ingroup||
ininit_argv_symbols||
ininit_constants||
ininit_dbargs||
ininit_debugger||
ininit_global_struct||
ininit_i18n10n|5.006000|
ininit_i18n14n|5.006000|
ininit_ids||
ininit_interp||
ininit_main_stash||
ininit_perlib||
ininit_postdump_symbols||
ininit_predump_symbols||
ininit_stacks|5.005000|
ininit_tm|5.007002|
inplace_aassign||
instr||n
intro_my|5.004000|
intuit_method||
intuit_more||
invert||
invlist_array||n
invlist_clone||
invlist_extend||
invlist_highest||n
invlist_is_iterating||n
invlist_iterfinish||n
mXPUSHu|5.009002||p
magic_clear_all_env||
magic_cleararylen_p||
magic_clearenv||
magic_clearhints||
magic_clearhint||
magic_clearisa||
magic_clearpack||
magic_clearsig||
magic_copycallchecker||
magic_dump||5.006000|
magic_existspack||
magic_freearylen_p||
magic_freesvrltd||
magic_getarylen||
magic_getdebugvar||
magic_getdefelem||
magic_getnkeys||
magic_getpack||
magic_getpos||
magic_getsig||
magic_getsubstr||
magic_gettaint||
magic_getuvar||
magic_getvec||
magic_get||
magic_killbackrefs||
magic_methcall1||
magic_methcall1||v
magic_methpack||
magic_nextpack||
magic_regdata_cont||
magic_regdatum_get||
magic_regdatum_set||
magic_scalarpack||
magic_set_all_env||
magic_setarylen||
magic_setcollxfrm||
magic_setdbline||
magic_setdebugvar||
magic_setdefelem||
magic_setenv||
magic_sethint||
magic_setisa||
magic_setlvref||
magic_setmglob||
magic_setnkeys||
magic_setpack||
missingterm
mode_from_discipline
modkids
more_bodies
more_sv
moreswitches
move_proto_attr
mro_clean_isarev
mro_gather_and_rename
mro_get_from_name[5.010001]
mro_get_linear_isa_dfs
mro_get_linear_isa[5.009005]
mro_get_private_data[5.010001]
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in[5.009005]
mro_package_moved
mro_register[5.010001]
mro_set_mro[5.010001]
mro_set_private_data[5.010001]
mul128
mulexp10
multideref_stringify
my_atof2[5.007002]
my_atof[5.006000]
my_attrs
my_bcopy
my_bytes_to_utf8
my_bzero
my_chsize
my_clearenv
my_cxt_index
my_cxt_init
my_dirfd[5.009005]
my_exit_jump
my_exit
my_failure_exit[5.004000]
my_fflush_all[5.006000]
my_fork[5.007003]
my_kid
my_lstat_flags
my_lstat[5.021008]
my_memcmp
my_memcmp
my_memset
my_pclose[5.003070]
my_popen_list[5.007001]
my_popen[5.003070]
space_join_names_mortal|||
ss_dup|||
ssc_add_range|||
ssc_and|||
ssc Anything|||
ssc_clear_locale|||
ssc_cp_and|||
ssc_finalize|||
ssc_init|||
ssc_intersection|||
ssc_is Anything|||
ssc_is_cp_posixl_init|||
ssc_or|||
ssc_union|||
stack_grow|||
start_glob|||
start_subparse|5.004000|
stdize_locale|||
strEQ|||
strGE|||
strGT|||
strLE|||
strLT|||
strNE|||
str_to_version|5.006000|
strip_return|||
strnEQ|||
strnNE|||
study_chunk|||
sub_crush_depth|||
sublex_done|||
sublex_push|||
sublex_start|||
sv_2bool_flags|5.013006|
sv_2bool|||
sv_2cv|||
sv_2io|||
sv_2iuv_common|||
sv_2iuv_non_preserve|||
sv_2iv_flags|5.009001|
sv_2iv|||
sv_2mortal|||
sv_2num|||
sv_2nv_flags|5.013001|
sv_2pv_flags|5.007002|p
sv_2pv_nolen|5.006000|p
sv_2pvbyte_nolen|5.006000|p
sv_2pvbyte|5.006000|p
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sv_nosharing\[5.007003\]
sv_nounlocking\|
sv_nv\[5.005000\]
sv_only_taint_gmagic\|\n
sv_or_pv_pos_u2b\|
sv_peek\[5.005000\]
sv_pos_b2u_flags\[5.019003\]
sv_pos_b2u_midway\||
sv_pos_b2u\[5.006000\]
sv_pos_u2b Cached\|
sv_pos_u2b_flags\[5.011005\]
sv_pos_u2b_forwards\|\n
sv_pos_u2b_midway\|\n
sv_pos_u2b\[5.006000\]
sv_pvbyten_force\[5.006000\]
sv_pvbyten\[5.006000\]
sv_pvbyte\[5.006000\]
sv_pvn_force_flags\[5.007002\]|\p
sv_pvn_force\|
sv_pvn_nomg\[5.007003\]|5.005000|\p
sv_pvn\[5.005000\]
sv_pvutf8n_force\[5.006000\]
sv_pvutf8n\[5.006000\]
sv_pvutf8\[5.006000\]
sv_pv\[5.006000\]
sv_recode_to_utf8\[5.007003\]
sv_reftype\|
sv_ref\|
sv_release_COW\|
sv_replace\|
sv_report_used\|
sv_resetpvn\|
sv_reset\|
sv_rvweaken\[5.006000\]
sv_sethek\|
sv_setiv_mg\[5.004050\]|\p
sv_setiv\|
sv_setnv_mg\[5.006000\]|\p
sv_setnv\|
sv_setpv_mg\[5.004050\]|\p
sv_setpvf_mg_nocontext\[\pvn\]
sv_setpvf_mg\[5.006000\]|5.004000|\p\
sv_setpvf_nocontext\[\pvn\]
sv_setpvf\[5.004000\]|\v
sv_setpviv_mg\[5.008001\]
sv_setpviv\[5.008001\]
sv_setpvn_mg\[5.004050\]|\p
sv_setpvn\|\n
sv_setpvs_mg[5.013006]
sv_setpvs[5.009004]|p
sv_setpv||
sv_setref_iv||
sv_setref_nv||
sv_setref_pvn||
sv_setref_pvs[5.021008]
sv_setref_pv||
sv_setref_uv[5.007001]
sv_setsv_cow||
sv_setsv_flags[5.007002]
sv_setsv_mg[5.004050]|p
sv_setsv_nomg[5.007002]|p
sv_setsv||
sv_setuv_mg[5.004050]|p
sv_setuv[5.004000]|p
sv_tainted[5.004000]
sv_taint[5.004000]
sv_true[5.005000]
sv_unglob||
sv_uni_display[5.007003]
sv_unmagicext[5.013008]|p
sv_unmagic||
sv_unref_flags[5.007001]
sv_unref||
sv_untaint[5.004000]
sv_upgrade||
sv_usepvn_flags[5.009004]
sv_usepvn_mg[5.004050]|p
sv_usepvn||
sv_utf8_decode[5.006000]
sv_utf8_downgrade[5.006000]
sv_utf8_encode[5.006000]
sv_utf8_upgrade_flags_grow[5.011000]
sv_utf8_upgrade_flags[5.007002]
sv_utf8_upgrade_nomg[5.007002]
sv_utf8_upgrade[5.007001]
sv_uv[5.005000]|p
sv_vcatpvf_mg[5.006000|5.004000|p
sv_vcatpvfn_flags[5.017002]
sv_vcatpvfn[5.004000]
sv_vcatpvf[5.006000|5.004000|p
sv_vsetpvf_mg[5.006000|5.004000|p
sv_vsetpvfn[5.004000]
sv_vsetpvf[5.006000|5.004000|p
svstype||
swallow_bom||
swash_fetch[5.007002]
translate_substr_offsets
try_amagic_bin
try_amagic_un
uiv_2buf
unlink
unpack_rec
unpack_string
unreferenced_to_tmp_stack
unshare_hek_or_pvn
unshare_hek
unsharepvn
unwind_handler_stack
update_debugger_info
upg_version
usage
utf16_textfilter
utf16_to_utf8_reversed
utf16_to_utf8
utf8_distance
utf8_hop
utf8_length
utf8_mg_len_cache_update
utf8_mg_pos_cache_update
utf8_to_bytes
utf8_to_uvchr_buf
utf8_to_uvchr
utf8_to_uvuni_buf
utf8_to_uvuni
utf8n_to_uvchr
utf8n_to_uvuni
utilize
uvchr_to_utf8_flags
uvchr_to_utf8
uvoffuni_to_utf8_flags
uvuni_to_utf8_flags
uvuni_to_utf8
valid_utf8_to_uvchr
valid_utf8_to_uvuni
validate_proto
validate_suid
varname
vcmp
vcroak
vdeb
vform
visit
vivify_defelem
if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ".x(40-length($f)), " ", format_version($API{$f}{todo}), "un";
  }
  exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {

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my @n = find_api($function->{1});
push @($depends->{$function->{0}}), @n if @n
}
undef $function;
}
else {
$function->{1} .= $_;
}
}$function = [$_, ] if m{^DPPP_\(my_(\w+)\)};

$replace = $1 if m{^\s*$rccs\s+Replace:\s+\(d+)\s+\$rccce\s+\*\$\};
$replace{$2} = $1 if $replace and m{^\s*$\#define\s+\(w+)\s+\(w+)\s+\$rccce\s+\*\$\};
if (m{^\s*$rccs\s+\(w+)\s+\$rccce\s+\*\$}) {
my @deps = map { s/\s+/i/; $_ } split /,/, $3;
for $d (map { s/\s+/i/; $_ } split /,/, $1) {
push @($depends{$d}), @deps;
}
}

$need{$1} = 1 if m{^\s+$rccs\s+\$d\s+\(w+)\s+\$rcce\s+\*\$\};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}
if (exists $opt{\{'api-info\'}}) {
my $f;
my $count = 0;
my $match = $opt{\{'api-info\'}} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{\{'api-info\'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if (SAPI{$f}{base} || SAPI{$f}{todo}) {
my $base = format_version(SAPI{$f}{base} || SAPI{$f}{todo});
print "Supported at least starting from perl-$base:\n";
$info++;
}
if (SAPI{$f}{provided}) {
my $todo = SAPI{$f}{todo} ? format_version(SAPI{$f}{todo}) : "5.003";

if (exists $opt{\{'api-info\'}}) {
my $f;
my $count = 0;
my $match = $opt{\{'api-info\'}} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{\{'api-info\'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if (SAPI{$f}{base} || SAPI{$f}{todo}) {
my $base = format_version(SAPI{$f}{base} || SAPI{$f}{todo});
print "Supported at least starting from perl-$base:\n";
$info++;
}
if (SAPI{$f}{provided}) {
my $todo = SAPI{$f}{todo} ? format_version(SAPI{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo\n";
print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '\$opt[\'api-info\']'.\n";
print "\n";
exit 0;
}
if (exists $opt{\'list-provided\'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  ['.join(', ', @flags).'] : "
    print "$f$flags\n";
  }
  exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
    }
    else { warn "$_ is not a file.\n" }
  }
  else { warn "@ARGV does not exist.\n";
    push @files, grep { !$seen{$_}++ } @new;
  }
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);

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# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}

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while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}

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if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    $file{changes} += $changes;
}
}
}
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\(\s*aTHX_?\)?\s*} {$func$1()}g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    } $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport''n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {

for $func (sort keys %{$file{needed_global}}) {
    my $message = "",
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$_func_Global if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$_func_Global when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$_func_Global when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
    my $pp = "",
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
        }
        $pp .= "$define NEED_${func}$suffix\n";
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "",
        $file{changes}++;
    }
}
unless ($file{has_inc_ppport}) {
  diag("Needs to include \"$ppport\"");
  $pp .= qq(#include "$ppport\n")
}

if ($pp) {
  $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*$)/$1$pp/ms)
  || ($c =~ s/^($HS*#$HS*include.*Q$ppport\E)/$pp/m)
  || ($c =~ s/^($HS*#$HS*include.*XSUB.*)/$pp/$m)
  || ($c =~ s/\n/$pp/);
} else {
  if ($file{has_inc_ppport}) {
    diag("No need to include \"$ppport\"");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport.*$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rcc$six$rccce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rcc$six$rccce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : ':';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ' pero';
my $warn = $warnings ? " ($warnings warning$s)" : ' pero';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    $newfile = "$newfile" if (-e $newfile);
    error("$newfile' already exists, refusing to write copy of '$filename'");
local *F;
if (open F, "$newfile") {
    info("Writing copy of $filename with changes to $newfile");
    print F $c;
    close F;
} else {
    error("Cannot open $newfile for writing: $!");
}
}
elseif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, "$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open $opt{patch} for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff($PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff($STDOUT, $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
} else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;
sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ''; local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    $tmp = "$tmp.$suf";
if (open F, ">$tmp") {
    print F $str;
    close F;
}

if (open F, "$prog $file $tmp |") {
    while (<F>) {
        s/Q$tmp/E/file.patched/;
        $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s($_)++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^(\d+)\.(\d+)\.(\d+)/$) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver'\n";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d{3})(\d{3})/;

$v = \text{int } \$v;\\n$s = \text{int } \$s;\\n
\text{if } (\$r < 5 \text{ || (} \$r == 5 \&\& \$v < 6 \text{)) } \{\\n  \text{if } (\$s \% 10) \{\\n    \text{die } \text{"cannot parse version } \$\text{ver}\text{"};\\n  \}\\n\}\\n\text{return } (\$r, \$v, \$s);\\n\}

\text{sub format_version } \\
\{\\n  \text{my } \$\text{ver} = \text{shift};\\n  \}\\n
\$\text{ver} = \text{~ s/000000/};\\n\text{my}(\$r,\$v,\$s) = \$\text{ver} = \text{~ /}(\text{d+})/(\text{d}[3])(\text{d}[3])/;\\n\text{$v = \text{int } \$v;\\n$s = \text{int } \$s;\\n
\text{if } (\$r < 5 \text{ || (} \$r == 5 \&\& \$v < 6 \text{)) } \{\\n  \text{if } (\$s \% 10) \{\\n    \text{die } \text{"invalid version } \$\text{ver}\text{"};\\n  \}\\n  \$s /= 10;\\n\}
\text{$\text{ver} = \text{sprintf } \"%d.03d\", \$r, \$v;\\n$s > 0 \text{ and } \$\text{ver} = \text{sprintf } \"_%02d\", \$s;\\n
\text{return } \$\text{ver};\\n\}
\text{return } \text{sprintf } \"%d.%d.%d\", \$r, \$v, \$s;\\n\}

\text{sub info } \\
\{\\n  \$\text{opt{quiet}} \text{ and return;\\n  print } @\,_\text{"\n};\\n\}

\text{sub diag } \\
\{\\n  \$\text{opt{quiet}} \text{ and return;\\n  \$\text{opt{diag}} \text{ and print } @\_, \text{"\n};
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

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exit 2;

}  

sub strip  
{
    my $self = do { local(@ARGV,$/)=(0); <> };  
    my($copy) = $self =~ /=head\d\s+COPYRIGHT\s*\^\(\.*\)?\^\?=\+=\w+/ms;  
    $copy =~ s//^$/\s+$/gms;  
    $self =~ s/^\^\^\$HS+Do NOT edit.*?(?=^-)/$copy/ms;  
    $self =~ s/^\^\^\$SKIP.*(?=^__DATA__)/\^\^\^\^\^\^\^\$SKIP  
        if (@ARGV && $ARGV[0] eq '--unstrip') {  
            eval { require Devel::PPPort };  
            \$@ and die "Cannot require Devel::PPPort, please install\n";  
            if (eval \$Devel::PPPort::VERSION < \$VERSION) {  
                die "$0 was originally generated with Devel::PPPort $\$Devel::PPPort::VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";  
            }  
            Devel::PPPort::WriteFile($0);  
            exit 0;  
        }  
    print <<\END;  
    Sorry, but this is a stripped version of \$0.  
    To be able to use its original script and doc functionality,  
    please try to regenerate this file using:  
    \$^X $0 --unstrip  
    END  
    \;/ms;  
    my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;  
    $c =~ s/\[[^\[]+\]\[^\[]*\]/gsex;  
    open OUT, ">$0" or die "cannot strip $0: $!";  
    print OUT "$pl$c";  
    exit 0;
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__DATA__
 */

Found in path(s):

No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

use Data::Dumper;

    # simple procedural interface
    print Dumper($foo, $bar);

    # extended usage with names
    print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

    # configuration variables
    { local $Data::Dumper::Purity = 1;
      eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
    }

    # OO usage
    $d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
    ...
    print $d->Dump;
    ...
    $d->Purity(1)->Terse(1)->Deepcopy(1);
    eval $d->Dump;

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the original reference structure. (Please do consider the security implications
of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named C<$VAR>I<n> (where I<n> is a numeric suffix), and other duplicate references to substructures within C<$VAR>I<n> will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>I<n> will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>->new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<*> to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.
Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in Perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item $OBJ->Dump  or  PACKAGE->Dump(arrayref, arrayref)

Returns the stringified form of the values stored in the object (preserving the order in which they were supplied to C<new>), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its arguments before dumping the object immediately.

=item $OBJ->Seen([HASHREF])

Queries or adds to the internal table of already encountered references. You must use C<Reset> to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names as in C<new>. If no argument is supplied, will return the "seen" list of name => value pairs, in a list context. Otherwise, returns the object itself.

=item $OBJ->Values(arrayref)

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.

=item $OBJ->Names(arrayref)

Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.
=item I<$OBJ>->Reset

Clears the internal table of "seen" references and returns the object itself.

=back

=head2 Functions

=over 4

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named C<$VAR>I<n> in the output, where I<n> is a numeric suffix. Will return a list of strings in a list context.

=back

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually C<local>ized in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=over 4

=item *

$Data::Dumper::Indent  I<or>  I<$OBJ>->Indent(I<[NEWVAL]>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines
Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Trailingcomma I<or> I<$OBJ>-Trailingcomma(I<NEWVAL>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

=item *

$Data::Dumper::Purity I<or> I<$OBJ>-Purity(I<NEWVAL>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

=item *

$Data::Dumper::Pad I<or> I<$OBJ>-Pad(I<NEWVAL>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.

=item *

$Data::Dumper::Varname I<or> I<$OBJ>-Varname(I<NEWVAL>)

Contains the prefix to use for tagging variable names in the output. The default is "VAR".

=item *

$Data::Dumper::Useqq I<or> I<$OBJ>-Useqq(I<NEWVAL>)

When set, enables the use of double quotes for representing string values. Whitespace other than space will be represented as C<\[\n\t\r]>, "unsafe" characters will be backslashed, and unprintable characters will be output as quoted octal integers. The default is 0.

=item *

$Data::Dumper::Terse I<or> I<$OBJ>-Terse(I<NEWVAL>)
When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the C<$VAR> names will be avoided where possible, but be advised that such output may not always be parseable by C<eval>.

=item *

$Data::Dumper::Freezer  $OBJ->Freezer($NEWVAL)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will invoke that method via the object before attempting to stringify it. This method can alter the contents of the object (if, for instance, it contains data allocated from C), and even reblem the object. The client is responsible for making sure the specified method can be called via the object, and that the object ends up containing only Perl data types after the method has been called. Defaults to an empty string.

If an object does not support the method specified (determined using UNIVERSAL::can()) then the call will be skipped. If the method dies a warning will be generated.

=item *

$Data::Dumper::Toaster  $OBJ->Toaster($NEWVAL)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax C<bless(DATA, CLASS)-METHOD>. Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblem it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *

$Data::Dumper::Deepcopy  $OBJ->Deepcopy($NEWVAL)

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.

=item *

$Data::Dumper::Quotekeys  $OBJ->Quotekeys($NEWVAL)
Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

=item *

$Data::Dumper::Bless I<or> $I<OBJ>-Bless(I<NEWVAL>)

Can be set to a string that specifies an alternative to the C<bless> builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is C<bless>.

=item *

$Data::Dumper::Pair I<or> $I<OBJ>-Pair(I<NEWVAL>)

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: C<$Data::Dumper::Pair = ':' >. Implementing C<bless> in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin.

Default is: C< =E<gt> >.

=item *

$Data::Dumper::Maxdepth I<or> $I<OBJ>-Maxdepth(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when C<Data::Dumper::Purity> is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

=item *

$Data::Dumper::Maxrecurse I<or> $I<OBJ>-Maxrecurse(I<NEWVAL>)

Can be set to a positive integer that specifies the depth beyond which recursion into a structure will throw an exception. This is intended as a security measure to prevent perl running out of stack space when dumping an excessively deep structure. Can be set to 0 to remove the limit. Default is 1000.
$Data::Dumper::Useperl  I<or>  $I<OBJ>-&gt;Useperl(I<[NEWVAL]>)

Can be set to a boolean value which controls whether the pure Perl implementation of C<Data::Dumper> is used. The C<Data::Dumper> module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

$Data::Dumper::Sortkeys  I<or>  $I<OBJ>-&gt;Sortkeys(I<[NEWVAL]>)

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine which will be called for each hash that is dumped. In this case C<Data::Dumper> will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *

$Data::Dumper::Deparse  I<or>  $I<OBJ>-&gt;Deparse(I<[NEWVAL]>)

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, C<B::Deparse> will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.

Caution : use this option only if you know that your coderefs will be properly reconstructed by C<B::Deparse>.

=item *

$Data::Dumper::Sparseseen  I<or>  $I<OBJ>-&gt;Sparseseen(I<[NEWVAL]>)

By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the C<Seen()> call both
for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the C<Sparseseen> option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on C<Sparseseen>, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back

=head2 Exports

=over 4

=item Dumper

=back

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;
sub new {bless ['a' => 1, 'b' => sub { return "foo" }], $_[0];}

package Fuz;                       # a weird REF-REF-SCALAR object
sub new {bless \($_ = \"fu\z\"\), $_[0];}

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \*foo, 
       [ 1 => 'a', 023 => 'b', 0x45 => 'c'],
       \"p\q\r", $foo, $fuz];

#######
# simple usage
$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar); # pretty print (no array indices)

$Data::Dumper::Terse = 1;  # don't output names where feasible
$Data::Dumper::Indent = 0;  # turn off all pretty print
print Dumper($boo), "\n";

$Data::Dumper::Indent = 1;  # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3;  # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1;  # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = " : ";  # specify hash key/value separator
print Dumper($boo);

############
# recursive structures
############

@c = ('c');
$c = \@c;
$b = {};
$a = [1, $b, $c];
$b->{a} = $a;
$b->{b} = $a->[1];
$b->{c} = $a->[2];
print Data::Dumper->Dump([$a,$b,$c], [qw(a b c)]);

$Data::Dumper::Purity = 1;  # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]); # print as @$a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]); # print as %b

$Data::Dumper::Deepcopy = 1;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);
### # deep structures

```perl
$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b ];
$d = [ $c ];
$e = { 'd' => $d ];
f = { 'e' => $e }; print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3; # no deeper than 3 refs down print Data::Dumper->Dump([$f], [qw(f)]);
```

### # object-oriented usage

```perl
$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen( { "c" => $c } ); # stash a ref without printing it $d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0); # empty the seen cache print join "----
", $d->Dump;
```

### # persistence

```perl
package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
    my $s = shift;
    print STDERR "preparing to sleep\n";
    $s->{state} = 'asleep';
    return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {
    my $s = shift;
    print STDERR "waking up\n";
    $s->{state} = 'awake';
    return bless $s, 'Foo';
}
```
package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########
sub foo { print "foo speaking\n" }
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new([\&other,$bar],["*other","bar"]);
$d->Seen({ '*foo' => \&foo });
print $d->Dump;

########
# sorting and filtering hash keys
########
$Data::Dumper::Sortkeys = \&my_filter;
my $foo = { map { (ord, "$_$_$_") } 'I'..'Q' };  
my $bar = { %$foo };  
my $baz = { reverse %$foo };  
print Dumper [ $foo, $bar, $baz ];

sub my_filter {  
  my ($hash) = @_;  
  # return an array ref containing the hash keys to dump  
  # in the order that you want them to be dumped  
  return [  
    # Sort the keys of %$foo in reverse numeric order  
    $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :  
    # Only dump the odd number keys of %$bar  
    $hash eq $bar ? (grep {$_ % 2} keys %$hash) :  
    # Sort keys in default order for all other hashes  
    (sort keys %$hash) ];  
}
=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an array or hash. Prepend it with a C<\> to pass its reference instead. This will be remedied in time, now that Perl has subroutine prototypes. For now, you need to use the extended usage form, and prepend the name with a C<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references. If a code reference is encountered in the structure being processed (and if you haven't set the C<Deparse> flag), an anonymous subroutine that contains the string "DUMMY" will be inserted in its place, and a warning will be printed if C<Purity> is set. You can C<eval> the result, but bear in mind that the anonymous sub that gets created is just a placeholder. Someday, perl will have a switch to cache-on-demand the string representation of a compiled piece of code, I hope. If you have prior knowledge of all the code refs that your data structures are likely to have, you can use the C<Seen> method to pre-seed the internal reference table and make the dumped output point to them, instead. See L</EXAMPLES> above.

The C<Deparse> flag makes Dump() run slower, since the XSUB implementation does not support it.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different ordering of hash keys. The change was done for greater security, see L<perlsec/"Algorithmic Complexity Attacks">. This means that different runs of Perl will have different Data::Dumper outputs if the data contains hashes. If you need to have identical Data::Dumper outputs from different runs of Perl, use the environment variable PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores the old (platform-specific) ordering: an even prettier solution might be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

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=head1 VERSION

Version 2.161 (July 11 2016)

=head1 SEE ALSO

perl(1)

=cut

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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/jmx/SigarProcessMBean.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/CurrentProcessSummary.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/NetServices.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/NetServices.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/vmware/VMObject.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/vmware/ConnectParams.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/CpuTimer.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/cmd/MultiPs.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/cmd/NetInfo.java
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  org/hyperic/sigar/cmd/Netstatus.java
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  org/hyperic/sigar/cmd/Netstat.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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  org/hyperic/sigar/NetServices.java
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  org/hyperic/sigar/vmware/VMObject.java
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  org/hyperic/sigar/cmd/MultiPs.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/jmx/SigarProcessMBean.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/ptql/MalformedQueryException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/ptql/ProcessFinder.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/cmd/Tail.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/cmd/Watch.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/cmd/SigarCommandBase.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/cmd/ProcInfo.java

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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/cmd/Runner.java

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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarMem.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/AbstractMBean.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarCpuPerc.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/shell/ShellCommand_sleep.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/shell/MultiwordShellCommand.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/windows/win32/test/TestMetaBase.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/shell/ShellCommandBase.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/cmd/ShowEnv.java
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org/hyperic/sigar/shell/ShellCommandUsageException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/cmd/Ulimit.java
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org/hyperic/sigar/cmd/Free.java
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org/hyperic/sigar/pager/ListPageFetcher.java
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org/hyperic/sigar/SigarPermissionDeniedException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/SigarInvoker.java
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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This package contains a modified version of ca-bundle.crt:

cacert.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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History
------

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/framework/validation/support/BindingAwareModelMap.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/framework/remoting/support/RemoteAccessor.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/jmx/export/NotificationListenerBean.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/remoting/soap/SoapFaultException.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/jmx/export/annotation/ManagedMetric.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4.1.5-release-sources-3-jar/org/springframework/format/number/CurrencyFormatter.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncResult.java
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 */
Abstract the invocation of a cache operation.

Does not provide a way to transmit checked exceptions but provide a special exception that should be used to wrap any exception that was thrown by the underlying invocation. Callers are expected to handle this issue type specifically.

@since 4.1

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jar/org/springframework/context/annotation/ScopedProxyCreator.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/LifecycleProcessor.java
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  jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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* Indicates that a component is only eligible for registration when all
* [ @linkplain #value() specified conditions ] match.
*
* <p>A <em>condition</em> is any state that can be determined programatically
* before the bean definition is due to be registered (see { @link Condition } for details).
*
* <p>The { @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* [ @code @Component ], including [ @link Configuration @Configuration ] classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any [ @link Bean @Bean ] method</li>
* </ul>
*
* <p>If a [ @code @Configuration ] class is marked with [ @code @Conditional ], all of the
* [ @code @Bean ] methods, [ @link Import @Import ] and [ @link ComponentScan @ComponentScan ]
* annotations associated with that class will be subject to the conditions.
*
* <p>NOTE: [ @code @Conditional ] annotations are not inherited; any conditions from
* superclasses or from overridden methods are not being considered.
*
* @author Phillip Webb
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/stereotype/Service.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/jmx/support/MetricType.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/context/ApplicationContextInitializer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/context/annotation/ConflictingBeanDefinitionException.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/context/EnvironmentAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/context/config/PropertyPlaceholderBeanDefinitionParser.java

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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer} reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * Exposes the {@code MBeanServer} for bean references.
 * This FactoryBean is a direct alternative to {link MBeanServerFactoryBean}, which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * See the javadocs for WebSphere's
 * {code AdminServiceFactory} and {code MBeanFactory}.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see java.management.MBeanServer
 * @see MBeanServerFactoryBean
 */
1.1392 jboss-classfilewriter 1.2.1.Final
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  jar/org/jboss/classfilewriter/annotations/EnumAnnotationValue.java
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* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/constpool/FieldRefEntry.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/code/ExceptionHandler.java
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* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/attributes/ExceptionsAttribute.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/constpool/FieldRefEntry.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/code/ExceptionHandler.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter-1-2-1-final-sources-
  jar/org/jboss/classfilewriter/constpool/ConstPool.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/ClassFile.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/attributes/SignatureAttribute.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/attributes/ExceptionsAttribute.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/constpool/FieldRefEntry.java
* /opt/cola/permits/1258016744_1643022628.77/0/jboss-classfilewriter/code/ExceptionHandler.java
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1.1393 sqlite 3.36.0

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1.1396 perl-io-socket-ssl 2.066-4.module+el8.3.0+6446+594cad75

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---

abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:  
- 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
  Net::SSLeay: '1.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: IO-Socket-SSL
no_index:
directory:
  - t
  - inc
requires:
  Mozilla::CA: '0'
  Net::SSLeay: '1.46'
  Scalar::Util: '0'
resources:
  bugtracker: https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
  homepage: https://github.com/noxxi/p5-io-socket-ssl
  license: http://dev.perl.org/licenses/
  repository: https://github.com/noxxi/p5-io-socket-ssl
  version: '2.066'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  * /opt/cola/permits/1176900449_1654486173.131666/0/perl-IO-Socket-SSL-2.066-4.module+el8.3.0+6446+594cad75.src.rpm-cosi-expand-archive-3y1pcGDI/IO-Socket-SSL-2.066.tar.gz-cosi-expand-archive-g77hEgaL/IO-Socket-SSL-2.066/META.yml

No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\n";
print <$cl>;
# simple server
my $srv = IO::Socket::SSL->new(
    LocalAddr => '0.0.0.0:1234',
    Listen => 10,
    SSL_cert_file => 'server-cert.pem',
    SSL_key_file => 'server-key.pem',
); $srv->accept;

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible. This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast. So there are lots of methods to make it do what you need if the default behavior is not adequate. Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4
=item * L</"Essential Information About SSL/TLS">
=item * L</"Basic SSL Client">
=item * L</"Basic SSL Server">
=item * L</"Common Usage Errors">
=item * L</"Common Problems with SSL">
=item * L</"Using Non-Blocking Sockets">
=item * L</"Advanced Usage">
=item * L</"Integration Into Own Modules">
=item * L</"Description Of Methods">
=back
Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when accessing web sites (https), delivering or retrieving email, and in lots of other use cases.

In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

Identification

This part makes sure that you talk to the right peer.

If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob. All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob. Thus Mallory would be able to read and modify all traffic between Alice and Bob.

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).

These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by
the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4
=table

=tablecell Get the certificate from the peer.
If the peer does not present a certificate we cannot verify it.
=tablecell

=tablecell Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.
In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this hierarchy.
In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.
Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=tablecell

=tablecell Check if the certificate is still valid.
Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=tablecell

=tablecell Check if the subject of the certificate matches the peer.
This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names represented in the certificate.
A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).
Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer. This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity. Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP. With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date. With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to. But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

    my $client = IO::Socket::SSL->new('www.example.com:443')
or die "error=$!, ssl_error=$SSL_ERROR";

This will take the OpenSSL default CA store as the store for the trusted CA. This usually works on UNIX systems. If there are no certificates in the store it will try use L<Mozilla::CA> which provides the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is
necessary to work with servers which have different certificates behind the same IP address.

It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL. This can be done like this:

```perl
my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
# .. read greeting from server
# .. send EHLO and read response
# .. send STARTTLS command and read response
# .. if response was successful we can upgrade the socket to SSL now:
IO::Socket::SSL->start_SSL($client,
# explicitly set hostname we should use for SNI
SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```perl
my $client = IO::Socket::SSL->new(
# where to connect
PeerHost => "www.example.com",
PeerPort => "https",

# certificate verification - VERIFY_PEER is default
SSL_verify_mode => SSL_VERIFY_PEER,

# location of CA store
# need only be given if default store should not be used
SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

# or just use default path on system:
IO::Socket::SSL::default_ca(), # either explicitly
# or implicitly by not giving SSL_ca_*

# easy hostname verification
# It will use PeerHost as default name a verification
# scheme as default, which is safe enough for most purposes.
SSL_verifycn_name => 'foo.bar',
SSL_verifycn_scheme => 'http',

# SNI support - defaults to PeerHost
```
SSL_hostname => 'foo.bar',

) or die "failed connect or ssl handshake: $!,$SSL_ERROR"

# send and receive over SSL connection
print $client "GET / HTTP/1.0\r\n\n";
print <$client>;

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

# default will try OCSP stapling and check only leaf certificate
my $client = IO::Socket::SSL->new($dst);

# better yet: require checking of full chain
my $client = IO::Socket::SSL->new(
    PeerAddr => $dst,
    SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
);

# even better: make OCSP errors fatal
# (this will probably fail with lots of sites because of bad OCSP setups)
# also use common OCSP response cache
my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
my $client = IO::Socket::SSL->new(
    PeerAddr => $dst,
    SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
    SSL_ocsp_cache => $ocsp_cache,
);

# disable OCSP stapling in case server has problems with it
my $client = IO::Socket::SSL->new(
    PeerAddr => $dst,
    SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
);

# check any certificates which are not yet checked by OCSP stapling or
# where we have already cached results. For your own resolving combine
# $ocsp->requests with $ocsp->add_response(uri,response).
my $ocsp = $client->ocsp_resolver();
my $errors = $ocsp->resolve_blocking();
if ($errors) {
    warn "OCSP verification failed: $errors";
    close($client);
}

=head1 Basic SSL Server
A basic SSL server looks similar to other LIO::Socket servers, only that it also contains settings for certificate and key:

```perl
# simple server
my $server = IO::Socket::SSL->new(
  # where to listen
  LocalAddr => '127.0.0.1',
  LocalPort => 8080,
  Listen => 10,

  # which certificate to offer
  # with SNI support there can be different certificates per hostname
  SSL_cert_file => 'cert.pem',
  SSL_key_file => 'key.pem',
) or die "failed to listen: $!";

# accept client
my $client = $server->accept or die
"failed to accept or ssl handshake: $!, $SSL_ERROR";
```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.

We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

```perl
# inet server
my $server = IO::Socket::INET->new(
  # where to listen
  LocalAddr => '127.0.0.1',
  LocalPort => 8080,
  Listen => 10,
);

# accept client
my $client = $server->accept or die;

# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
  SSL_server => 1,
  SSL_cert_file => 'cert.pem',
  SSL_key_file => 'key.pem',
) or die "failed to ssl handshake: $SSL_ERROR";
```
Like with normal sockets, neither forking nor threading servers scale well. It is recommended to use non-blocking sockets instead, see L</"Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places).
Because \texttt{L<IO::Socket::SSL>} is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided by \texttt{L<IO::Socket::SSL>}.

If necessary these can be checked with the \texttt{C<default_ca>} method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you \texttt{sysread} one byte on a normal socket it will result in a syscall to read one byte. Thus, if more than one byte is available on the socket it will be kept in the network stack of your OS and the next select or poll call will return the socket as readable.

But, with SSL you don't deliver single bytes. Multiple data bytes are packaged and encrypted together in an SSL frame. Decryption can only be done on the whole frame, so a \texttt{sysread} for one byte actually reads the complete SSL frame from the socket, decrypts it and returns the first decrypted byte. Further \texttt{sysreads} will return more bytes from the same frame until all bytes are returned and the next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if \texttt{sysread} will block) you must check if there are still data in the current SSL frame by calling \texttt{C<pending>} and if there are no data pending you might check the underlying socket with select or poll.

Another way might be if you try to \texttt{sysread} at least 16kByte all the time. 16kByte is the maximum size of an SSL frame and because \texttt{sysread} returns data from only a single SSL frame you can guarantee that there are no pending data.

See also \texttt{L</"Using Non-Blocking Sockets">}.

=item *

Expecting exactly the same behavior as plain sockets.

\texttt{IO::Socket::SSL} tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also \texttt{C<accept>} and \texttt{B<close>} on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly \texttt{IGNORE} signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.
Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world. But, there are some scripts or modules out there which tried to be smart and get more secure or compatible settings. Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11). Or they set 'HIGH' as the cipher list and thought they were secure, but did not notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

Use of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.
Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a `fork` but it will be lost when doing `exec`. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=head1 Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug. Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of `IO::Socket::SSL` and `Net::SSLeay`, which can both be set with `IO::Socket::SSL::DEBUG`.

The following debugs levels are defined, but used not in any consistent way:

=over 4
=item *
0 - No debugging (default).

=item *
1 - Print out errors from `IO::Socket::SSL` and ciphers from `Net::SSLeay`.

=item *
2 - Print also information about call flow from `IO::Socket::SSL` and progress information from `Net::SSLeay`.

=item *
3 - Print also some data dumps from `IO::Socket::SSL` and from `Net::SSLeay`.

=back

Also, `analyze-ssl.pl` from the ssl-tools repository at L<https://github.com/noxxi/p5-ssl-tools> might be a helpful tool when debugging.
SSL problems, as do the `openssl` command line tool and a check with a
different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary
certificates into their server setup, e.g. everything needed to build the trust
chain from the trusted root.
If they check the setup with the browser everything looks ok, because browsers
work around these problems by caching any intermediate certificates and apply
them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot
fill in the missing certificates and fail to verify; the same is true with
`IO::Socket::SSL`.

=item *

Old versions of servers or load balancers which do not understand specific TLS
versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection
inside the SSL handshake. This can usually be worked around by downgrading the
SSL version, e.g. by setting `SSL_version`. Modern Browsers usually deal with
such servers by automatically downgrading the SSL version and repeat the
connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just
drop the relevant packet. This is harder to detect because it looks like a
stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which
have hardware acceleration and only a minimal (and less robust) SSL stack. They
can often be detected because they support much fewer ciphers than other
implementations.

=item *

Bad or old OpenSSL versions.

`IO::Socket::SSL` uses OpenSSL with the help of the `Net::SSLeay` library. It
is recommend to have a recent version of this library, because it has more
features and usually fewer known bugs.

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>, that the necessary root certificate is in the path specified by C<SSL_ca*> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

Validation of self-signed certificate fails even if it is given with C<SSL_ca*> argument.

The C<SSL_ca*> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but is different on Windows.

With SSL, handshakes might occur at any time, even within an established connection. In these cases it is necessary to finish the handshake before you can read or write data. This might result in situations where you want to read but must first finish the write of a handshake or where you want to write but must first finish a read.

In these cases C<$!> is set to EAGAIN like expected, and additionally C<$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE. Thus if you get EWOULDBLOCK on a SSL socket you must check C<$SSL_ERROR> for SSL_WANT_* and adapt your event mask accordingly.
Using readline on non-blocking sockets does not make much sense and I would advise against using it. And, while the behavior is not documented for other L<IO::Socket> classes, it will try to emulate the behavior seen there, e.g. to return the received data instead of blocking, even if the line is not complete. If an unrecoverable error occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object because it might block and this is not what most would expect. The reason for this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>...) results in a new TCP socket which does not inherit the non-blocking behavior of the master socket. And thus, the initial SSL handshake on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking way. To work around this you are safer by doing a TCP accept and later upgrade the TCP socket in a non-blocking way with C<start_SSL> and C<accept_SSL>.

```perl
my $cl = IO::Socket::SSL->new($dst);
$cl->blocking(0);
my $sel = IO::Select->new($cl);
while (1) {
    # with SSL a call for reading n bytes does not result in reading of n
    # bytes from the socket, but instead it must read at least one full SSL
    # frame. If the socket has no new bytes, but there are unprocessed data
    # from the SSL frame can_read will block!

    # wait for data on socket
    $sel->can_read();

    # new data on socket or eof
    READ:
    # this does not read only 1 byte from socket, but reads the complete SSL
    # frame and then just returns one byte. On subsequent calls it than
    # returns more byte of the same SSL frame until it needs to read the
    # next frame.
    my $n = sysread( $cl,my $buf,1);
    if ( ! defined $n ) {
        die "$!" if not ${EWOULDBLOCK};
        next if $SSL_ERROR == SSL_WANT_READ;
        if ( $SSL_ERROR == SSL_WANT_WRITE ) {
            # need to write data on renegotiation
            $sel->can_write;
            next;
            die "something went wrong: $SSL_ERROR";
        } elsif ( ! $n ) {
            last; # eof
        } else {
            # read next bytes
```
### Advanced Usage

Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available. Relying only on these calls is not sufficient in all cases since unread data might be internally buffered in the SSL stack. To detect such buffering `B<pending>()>` need to be used. Alternatively the buffering can be avoided by using `B<sysread>` with the maximum size of an SSL frame. See `L</"Common Usage Errors">` for details.

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in `L<IO::Socket::SSL>`. With a supported version, SNI is used automatically on the client side, if it can determine the hostname from `C<PeerAddr>` or `C<PeerHost>` (which are synonyms in the underlying `IO::Socket::` classes and thus should never be set both or at least not to different values). On unsupported OpenSSL versions it will silently not use SNI. The hostname can also be given explicitly given with `C<SSL_hostname>`, but in this case it will throw in error, if SNI is not supported. To check for support you might call `C<< IO::Socket::SSL->can_client_sni() >>`. On the server side, earlier versions of OpenSSL are supported, but only together with `L<Net::SSLeay> version >= 1.50`. To check for support you might call `C<< IO::Socket::SSL->can_server_sni() >>`. If server side SNI is supported, you might specify different certificates per host with `C<SSL_cert*>` and `C<SSL_key*>`, and check the requested name using `C<get_servername>`.  

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even
need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use `start_SSL` to upgrade and `stop_SSL` to downgrade:

```perl
my $sock = IO::Socket::INET->new(...) or die $!;
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from `L<IO::Socket::INET>`. While this base class can be replaced with `L<IO::Socket::SSL>`, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.

To help in this case, `L<IO::Socket::SSL>` can be reduced to a plain socket on startup, and `connect_SSL/accept_SSL/start_SSL` can be used to enable SSL and `C<stop_SSL>` to talk plain again:

```perl
my $sock = IO::Socket::SSL->new(
    PeerAddr => ...
    SSL_startHandshake => 0,
    %sslargs
) or die $!;
... exchange plain data on $sock until starttls command ...
$sock->connect_SSL or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still an IO::Socket::SSL object ...
... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

`L<IO::Socket::SSL>` behaves similarly to other `L<IO::Socket>` modules and thus could be integrated in the same way, but you have to take special care when using non-blocking I/O (like for handling timeouts) or using select or poll.

Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the `C<SSL_*>` options, so that they keep their secure defaults. It is also recommended to let the user override these SSL specific settings without the need of global settings or hacks like `C<set_args_filter_hack>`.
The notable exception is \texttt{SSL\_verifycn\_scheme}. This should be set to the hostname verification scheme required by the module or protocol.

=head1 Description Of Methods

\texttt{IO::Socket::SSL} inherits from another \texttt{IO::Socket} module. The choice of the super class depends on the installed modules:

=over 4

=item *

If \texttt{IO::Socket::IP} with at least version 0.20 is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

If \texttt{IO::Socket::INET6} is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to \texttt{IO::Socket::INET}, which is a perl core module. With \texttt{IO::Socket::INET} you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first for the IPv6 address of a given hostname. If the resolver provides an IPv6 address, but the host cannot be reached by IPv6, there will be no automatic fallback to IPv4.

To avoid these problems you can enforce IPv4 for a specific socket by using the \texttt{Domain} or \texttt{Family} option with the value \texttt{AF\_INET} as described in \texttt{IO::Socket::IP}. Alternatively you can enforce IPv4 globally by loading \texttt{IO::Socket::SSL} with the option \texttt{inet4}, in which case it will use the IPv4 only class \texttt{IO::Socket::INET} as the super class.

\texttt{IO::Socket::SSL} will provide all of the methods of its super class, but sometimes it will override them to match the behavior expected from SSL or to provide additional arguments.

The new or changed methods are described below, but please also read the section about SSL specific error handling.
=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<$SSL_ERROR> will be set. If the error occurred on an existing SSL socket, the method C<errstr> will give access to the latest socket specific error. Both C<$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<$!>, e.g. providing an error number in numeric context or an error description in string context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options that came bundled with the super class (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>, ...) plus (optionally) the ones described below. If you don't specify any SSL related options it will do its best in using secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server. If this is not explicitly set it is assumed if the C<Listen> parameter is given when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you have multiple SSL hostnames on the same IP address. If not given it will try to determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to ".

Currently only supported for the client side and will be ignored for the server side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>. Before the handshake is started read/write/etc. can be used to exchange plain data.
=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will not close the underlying TCP socket on errors. In most cases there is no real use for this behavior since both sides of the TCP connection will probably have a different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a trusted certificate authority. In this case you should use this option to specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the certificate(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where the path are separated by the platform specific separator. This separator is C::<> on DOS, Windows, Netware, C<,> on VMS and C:<:> for all the other systems. If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from L<Net::SSLeay> or L<IO::Socket::SSL::Util::PEM_xxx2cert>) with C<SSL_ca>. These will be added to the CA store before path and file and thus take precedence.

If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults.

If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<undef> or SSL_ca to an empty list. (unfortunately C<''> is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select they required certificate from a list of certificates.

The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable verification at all. In this case you can specify the fingerprint of the certificate as C<algo$hex_fingerprint>. C<algo> is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the hexadecimal representation of the binary fingerprint. Any colons inside the hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead of the certificate use the syntax C<algo$pub$hex_fingerprint> instead.
To get the fingerprint of an established connection you can use \texttt{C<get_fingerprint>}. 

It is also possible to skip \texttt{C<algo>}, i.e. only specify the fingerprint. In this case the likely algorithms will be automatically detected based on the length of the digest string.

You can specify a list of fingerprints in case you have several acceptable certificates.

If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

\begin{verbatim}
=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key
\end{verbatim}

If you create a server you usually need to specify a server certificate which should be verified by the client. Same is true for client certificates, which should be verified by the server.

The certificate can be given as a file with \texttt{SSL_cert_file} or as an internal representation of an X509* object (like you get from \texttt{L<Net::SSLeay>} or \texttt{L<IO::Socket::SSL::Utils::PEM_xxx2cert>}) with \texttt{SSL_cert}.

If given as a file it will automatically detect the format.

Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of X509* please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with \texttt{SSL_key_file} or as an internal representation of an EVP_PKEY* object with \texttt{SSL_key} (like you get from \texttt{L<Net::SSLeay>} or \texttt{L<IO::Socket::SSL::Utils::PEM_xxx2key>}).

If a key was already given within the PKCS#12 file specified by \texttt{SSL_cert_file} it will ignore any \texttt{SSL_key} or \texttt{SSL_key_file}.

If no \texttt{SSL_key} or \texttt{SSL_key_file} was given it will try to use the PEM file given with \texttt{SSL_cert_file} again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with \texttt{C<<hostname => cert_file>>}. 

If your SSL server should be able to use both RSA and ECDSA certificates for the same domain/IP a similar hash reference like with SNI is given. The domain names used to specify the additional certificates should be \texttt{C<hostname%whatever>}, i.e. \texttt{C<hostname%ecc> or similar}. This needs at least
OpenSSL 1.0.2. To let the server pick the certificate based on the clients cipher preference C<SSL_honor_cipher_order> should be set to false.

In case certs and keys are needed but not given it might fall back to builtin defaults, see "Defaults for Cert, Key and CA".

Examples:

SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',

SSL_cert_file => {
    "foo.example.org" => 'foo-cert.pem',
    "foo.example.org%ecc" => 'foo-ecc-cert.pem',
    "bar.example.org" => 'bar-cert.pem',
    # used when nothing matches or client does not support SNI
    "" => 'default-cert.pem',
    "%ecc" => 'default-ecc-cert.pem',
},
SSL_key_file => {
    "foo.example.org" => 'foo-key.pem',
    "foo.example.org%ecc" => 'foo-ecc-key.pem',
    "bar.example.org" => 'bar-key.pem',
    # used when nothing matches or client does not support SNI
    "" => 'default-key.pem',
    "%ecc" => 'default-ecc-key.pem',
}

=item SSL_passwd_cb

If your private key is encrypted, you might not want the default password prompt from Net::SSLeay. This option takes a reference to a subroutine that should return the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set. For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data.
'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict handshake and protocol to the specified version. All values are case-insensitive. Instead of 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'. Support for 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSLeay and openssl.

Independent from the handshake format you can limit to set of accepted SSL versions by adding !version separated by ':'.

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the handshake format is compatible to SSL2.0 and higher, but that the successful handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.

You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older clients, which need and SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'. Look into the OpenSSL documentation (L<http://www.openssl.org/docs/apps/ciphers.html#CIPHER_STRINGS>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting. The default setting prefers ciphers with forward secrecy, disables anonymous authentication and disables known insecure ciphers like MD5, DES etc. This gives a grade A result at the tests of SSL Labs.

To use the less secure OpenSSL builtin default (whatever this is) set SSL_cipher_list to ".

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of
our secure cipher list setting.

=item SSL_dh_file

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to be given here or the SSL_dh should be used with a appropriate value.
See dhparam command in openssl for more information.

If neither C<SSL_dh_file> nor C<SSL_dh> are set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh> parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.

=item SSL_ecdh_curve

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at least one suitable curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is implemented in Net::SSLeay (needs at least version 1.86) it will use this to implement the same default. Otherwise it will default to C<prime256v1> (builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLeay (needs at least version 1.86) then multiple curves can be given here in the order of the preference, i.e. C<P-521:P-384:P-256>. When used at the client side this will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or set C<SSL_ciphers> to exclude all of these ciphers.

You can check if ECDH support is available by calling C<< IO::Socket::SSL->can_ecdh >>.
=item SSL_verify_mode

This option sets the verification mode for the peer certificate. You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT (fail verification if no peer certificate exists; ignored for clients), SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients). See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client certificate) and SSL_VERIFY_PEER for client (check server certificate).

=back

=over 4

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.
a C-style memory address of the certificate store,

=item 3.
a string containing the certificate's issuer attributes and owner attributes, and

=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible to PEM form with Net::SSLeay::PEM_get_string_X509()).

=item 6.
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

The function should return 1 or 0, depending on whether it thinks the certificate is valid or invalid. The default is to let OpenSSL do all of the busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.
item SSL_verifycn_scheme

The scheme is used to correctly verify the identity inside the certificate by using the hostname of the peer. See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if the name verification fails instead of letting the whole certificate verification fail. THIS WILL CHANGE, e.g. it will let the certificate verification fail in the future if the hostname does not match the certificate !!!! To override the name used in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the hostname in common name and subjectAltName and allow wildcards everywhere. While using this scheme is way more secure than no name verification at all you better should use the scheme specific to your application protocol, e.g. 'http', 'ftp'...

If you are really sure, that you don't want to verify the identity using the hostname you can use 'none' as a scheme. In this case you'd better have alternative forms of verification, like a certificate fingerprint or do a manual verification later by calling B<verify_hostname> yourself.

item SSL_verifycn_publicsuffix

This option is used to specify the behavior when checking wildcards certificates for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of L<IO::Socket::SSL::PublicSuffix>, you can create another object with from_string or from_file of this module.

To disable verification of public suffix set this option to C<"">.

item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme is set and no SSL_verifycn_name is given it will try to use SSL_hostname or PeerHost and PeerAddr settings and fail if no name can be determined. If SSL_verifycn_scheme is not set it will use a default scheme and warn if it cannot determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly with C<< IO::Socket::SSL->new >>, if an IO::Socket::INET object is upgraded with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or B<SSL_hostname>.
If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your SSL_ca_path, or use the file specified by SSL_crl_file. See the Net::SSLeay documentation for more details. Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

If you want to specify the CRL file to be used, set this value to the pathname to be used. This must be used in addition to setting SSL_check_crl.

Defines how certificate revocation is done using OCSP (Online Status Revocation Protocol). The default is to send a request for OCSP stapling to the server and if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resovler>.

The following flags can be combined with C<|>:

Don't ask for OCSP stapling.
This is the default if SSL_verify_mode is VERIFY_NONE.

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER (the default).

Consider it a hard error, if the server does not send a stapled OCSP response back. Most servers currently send no stapled OCSP response back.

Fail hard on response errors, default is to fail soft like the browsers do.
Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard errors.
Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>.
If the peer did not provide a stapled OCSP response the function will be called with C<$resp=undef>.
Because the OCSP response handle is no longer valid after leaving this function it should not by copied or freed. If access to the response is necessary after leaving this function it can be serialized with C<Net::SSLeay::i2d_OCSP_RESPONSE>.
If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with C<< IO::Socket::SSL::OCSP_Cache->new([size]) >> or implement your own cache, which needs to have methods C<put($key,%entry)> and C<get($key)> (returning C<%entry>) where entry is the hash representation of the OCSP response with fields like C<nextUpdate>. The default implementation of the cache will consider responses valid as long as C<nextUpdate> is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of IO::Socket::SSL, then you can reuse the SSL context of that instance by passing it as the value for the SSL_reuse_ctx parameter. You may also create a new instance of the IO::Socket::SSL::SSL_Context class, using any context
options that you desire without specifying connection options, and pass that here instead.

If you use this option, all other context-related options that you pass in the same call to new() will be ignored unless the context supplied was invalid. Note that, contrary to versions of IO::Socket::SSL below v0.90, a global SSL context will not be implicitly used unless you use the set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it got created and the default setup was done. The callback will be called with the CTX object from Net::SSLeay as the single argument.

Example for limiting the server session cache size:

SSL_create_ctx_callback => sub {
    my $ctx = shift;
    Net::SSLeay::CTX_sess_set_cache_size($ctx,128);
}

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation time is an issue, you can turn on client-side session caching with this option by specifying a positive cache size. For successive connections, pass the SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make use of the cached sessions. The session cache size refers to the number of unique host/port pairs that can be stored at one time; the oldest sessions in the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients, e.g. it does not affect SSL objects with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLeay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new. Overrules SSL_session_cache_size.
This option is useful if you want to reuse the cache, but not the rest of the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new( cachesize ) >>.
Use `set_default_session_cache()` to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache. Per default ip:port of destination will be used, but sometimes you want to share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want clients to connect with a client certificate. If not given but SSL_verify_mode specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the actual socket connection works but the SSL negotiation fails, as in the case of an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached to this parameter allows you to gain control of the orphaned socket instead of having it be closed forcibly. The subroutine, if called, will be passed two parameters:
- a reference to the socket on which the SSL negotiation failed and
- the full text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL server as an array ref, e.g. `['spdy/2', 'http1.1']`. On the client side it specifies the protocols offered by the client for NPN as an array ref. See also method `next_proto_negotiated`.

Next Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol. To check support you might call `IO::Socket::SSL->can_npn()`.

If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL server as an array ref, e.g. `['http/2.0', 'spdy/3.1', 'http/1.1']`. On the client side it specifies the protocols advertised by the client for ALPN as an array ref. See also method `alpn_selected`.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay
openssl-1.0.2+. More details about the extension are in RFC7301. To check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and ALPN are specified. Since ALPN is intended as a replacement for NPN, try providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [$sub,$data] | $sub

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< $sub->($data,[${key}_name}] >> where C<$data> is the argument given to SSL_ticket_keycb (or undef) and C<${key}_name> depends on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without C<${key}_name>. In this case it should return C<(${current_key},${current_key}_name}) where C<${current_key}> is the current key (32 byte random data) and C<${current_key}_name> the name associated with this key (exactly 16 byte). This C<${current_key}_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<${key}_name> as found in the ticket. It should return C<(${key},${current_key}_name}) where C<${key}> is the key associated with the given C<${key}_name> and C<${current_key}_name> the name associated with the currently active key.

If C<${current_key}_name> is different from the given C<${key}_name> the callback will be called again to re-encrypt the ticket with the currently active key. If no key can be found which matches the given C<${key}_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16","oldsecret");
my $newkey_name = pack("a16","newsecret");

my @keys = (  
    [ $newkey_name, $newkey ], # current active key  
    [ $oldkey_name, $oldkey ], # already expired
);

my $keycb = [ sub {  
    my ($mykeys,$name) = @_;  

    # return (current_key, current_key_name) if no name given  
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching  
    # the given name  
    for(my $i = 0; $i<@mykeys; $i++) {  
        next if $name ne $mykeys->[i][0];  
        return ($mykeys->[i][1],$mykeys->[0][0]);  
    }  

    # no matching key found  
    return;
    },@keys ];

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);

=back
=item B<accept>

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket, the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details. If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C<start_SSL> later.

=item B<connect(...)>  

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C<new> to create a connect SSL socket or C<start_SSL> to upgrade an established TCP socket to SSL.

=item B<close(...)>

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=item B<sysread( BUF, LEN, [ OFFSET ] )>

This function behaves from the outside the same as B<sysread> in other L<IO::Socket> objects, e.g. it returns at most LEN bytes of data. But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls. This means, that it might be possible to read data, even if the underlying socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite( BUF, [ LEN, [ OFFSET ] ] )>

This functions behaves from the outside the same as B<syswrite> in other
L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but there is no guarantee, that all LEN bytes are written. It will return the number of bytes written.

Because it basically just calls SSL_write from OpenSSL syscall will write at most a single SSL frame. This means, that no more than 16.384 bytes, which is the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies. Please read the specific section in this documentation.

**=item B<peek( BUF, LEN, [ OFFSET ])>**

This function has exactly the same syntax as B<sysread>, and performs nearly the same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

**=item B<pending()>**

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

**=item B<get_fingerprint([algo,certificate,pubkey])>**

This methods returns the fingerprint of the given certificate in the form C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'. If no certificate is given the peer certificate of the connection is used. If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algo$pub$digest_hex>.

**=item B<get_fingerprint_bin([algo,certificate,pubkey])>**

This methods returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'. If no certificate is given the peer certificate of the connection is used. If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

**=item B<get_cipher()>**

Returns the string form of the cipher that the IO::Socket::SSL object is using.

**=item B<get_sslversion()>**

Returns the string representation of the SSL version of an established connection.
=item B<get_sslversion_int()>

Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate. This method directly returns the result of the dump_peer_certificate() method of Net::SSLeay.

=item B<peer_certificate($field;[$refresh])>

If a peer certificate exists, this function can retrieve values from it. If no field is given the internal representation of certificate from Net::SSLeay is returned. If refresh is true it will not used a cached version, but check again in case the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLeay version &gt;=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLeay version &gt;=1.33

Alternative names for the subject, usually different names for the same server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these
constants are exported from IO::Socket::SSL).
See Net::SSLeay::X509_get_subjectAltNames.

=back

=item B<sock_certificate($field)>

This is similar to C<peer_certificate> but will return the sites own certificate. The same arguments for B<$field> can be used.
If no B<$field> is given the certificate handle from the underlying OpenSSL will be returned. This handle will only be valid as long as the SSL connection exists and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58.

=item B<get_servername>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname($hostname,$scheme,$publicsuffix)>

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr.
See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.
=item http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if their are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known. Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

=item none

No verification will be done. Actually is does not make any sense to call verify_hostname in this case.

=back

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

=over 8
=item check_cn: 0\'|always\'|\'when_only\'

Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

=item wildcards_in_alt: 0\'|full_label\'|\'anywhere\'

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed.
For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

=item wildcards_in_cn: 0\'|full_label\'|\'anywhere\'

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.

=item callback: \&coderef

If you give a subroutine for verification it will be called with the arguments ($hostname,$commonName,@subjectAltNames), where hostname is the name given for verification, commonName is the result from peer_certificate('cn') and subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

=back

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+. To check support you might call C<< IO::Socket::SSL->can_npn() >>.

=item B<alpn_selected()>
Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1', 'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.
To check support, use C<< IO::Socket::SSL->can_alpn() >>.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a real object to perform this method on, call IO::Socket::SSL::errstr() instead.

For read and write errors on non-blocking sockets, this method may include the string C<SSL wants a read first!> or C<SSL wants a write first!> meaning that the other side is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable $SSL_ERROR against the exported symbols SSL_WANT_READ and SSL_WANT_WRITE.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying IO::Handle is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL($socket, ... ) >>

This will convert a glob reference or a socket that you provide to an IO::Socket::SSL object. You may also pass parameters to specify context or connection options as with a call to new(). If you are using this function on an accept()ed socket, you must set the parameter "SSL_server" to 1, i.e. IO::Socket::SSL->start_SSL($socket, SSL_server => 1). If you have a class that inherits from IO::Socket::SSL and you want the $socket to be blessed into your own class instead, use MyClass->start_SSL($socket) to achieve the desired effect.

Note that if start_SSL() fails in SSL negotiation, $socket will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to IO::Socket::SSL and call accept_SSL or connect_SSL and the upgraded object. To just upgrade the socket set B<SSL_startHandshake> explicitly to 0. If you call start_SSL w/o this parameter it will revert to blocking behavior for accept_SSL and connect_SSL.

If given the parameter "Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.
This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it
will shutdown the SSL connection and return to the class before start_SSL(). It
gets the same arguments as close(), in fact close() calls stop_SSL() (but
without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for
non-blocking sockets. In this case $! is set to EWOULDBLOCK and the ssl error to
SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again
with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it
waits for the close_notify of the peer. This is necessary in case you want to
downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

These functions should be used to do the relevant handshake, if the socket got
created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was
set to false.
They will return undef until the handshake succeeded or an error got thrown.
As long as the function returns undef and $! is set to EWOULDBLOCK one could
retry the call after the socket got readable (SSL_WANT_READ) or writeable
(SSL_WANT_WRITE).

This will create an OCSP resolver object, which can be used to create OCSP
requests for the certificates of the SSL connection. Which certificates are
verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf
certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain
certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate
need to be known it is not possible to check certificates when the trust chain
is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling C<< $ssl->ocsp_resolver >> and
provides the following methods:

This returns the hard error when checking the OCSP response.
Hard errors are certificate revocations. With the C<SSL_ocsp_mode> of SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return C<"">.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The usual way to send such a request is as HTTP POST request with a content-type of C<application/ocsp-request> or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with C<add_response> you should better call this method again to make sure, that no more requests are outstanding. IO::Socket::SSL will combine multiple OCSP requests for the same server inside a single request, but some server don't give a response to all these requests, so that one has to ask again with the remaining requests.

=item add_response($uri,$response)

This method takes the HTTP body of the response which got received when sending the OCSP request to C<$uri>. If no response was received or an error occurred one should either retry or consider C<$response> as empty which will trigger a soft error.

The method returns the current value of C<hard_error>, e.g. a defined value when no more requests need to be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_SSL> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent.
with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd($fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket. Note that the argument list does not include a "MODE" argument; if you supply one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET). Instead, a mode of '+' is assumed, and the file descriptor passed must be able to handle such I/O because the initial SSL handshake requires bidirectional communication.

Internally the given $fd will be upgraded to a socket object using the C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and then C<start_SSL> will be called using the given C<%sslargs>. If C<$fd> is already an IO::Socket object you should better call C<start_SSL> directly.

=item B<IO::Socket::SSL::default_ca([ path|dir| SSL_ca_file => ..., SSL_ca_path => ... ])> Determines or sets the default CA path. If existing path or dir or a hash is given it will set the default CA path to this value and never try to detect it automatically. If C<undef> is given it will forget any stored defaults and continue with detection of system defaults. If no arguments are given it will start detection of system defaults, unless it has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check the directory specified in environment variable SSL_CERT_DIR or the path OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files with the hash as file name and if the SSL_ca_file looks like PEM. If no usable system default can be found it will try to load and use L<Mozilla::CA> and if not available give up detection. The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context (unless specifically overridden in a call to new()). It accepts one argument, which should be either an IO::Socket::SSL object or an IO::Socket::SSL::Context object.
See the SSL_reuse_ctx option of new() for more details.
Note that this sets the default context globally, so use with caution (esp. in
mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You may use this to make IO::Socket::SSL automatically re-use a given session
cache (unless specifically overridden in a call to new()).
It accepts one argument, which should be an IO::Socket::SSL::Session_Cache
object or similar (e.g. something which implements get_session, add_session and
del_session like IO::Socket::SSL::Session_Cache does).
See the SSL_session_cache option of new() for more details.
Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for
creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can
be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifycn_scheme

=item name - SSL_verifycn_name

=back

=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for client mode.

=item B<IO::Socket::SSL::set_server_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for server mode.

=item B<IO::Socket::SSL::set_args_filter_hack(\&code\'|use_defaults')>

Sometimes one has to use code which uses unwanted or invalid arguments for SSL,
typically disabling SSL verification or setting wrong ciphers or SSL versions.
With this hack it is possible to override these settings and restore sanity.
Example:

    IO::Socket::SSL::set_args_filter_hack( sub {

my ($is_server,$args) = @_; 
if ( ! $is_server ) { 
  # client settings - enable verification with default CA 
  # and fallback hostname verification etc 
  delete @{$args}{qw( 
    SSL_verify_mode 
    SSL_ca_file 
    SSL_ca_path 
    SSL_verifycn_scheme 
    SSL_version 
  )}; 
  # and add some fingerprints for known certs which are signed by 
  # unknown CAs or are self-signed 
  $args->{SSL_fingerprint} = ... 
} 
}); 

With the short setting C<set_args_filter_hack('use_defaults')> it will prefer 
the default settings in all cases. These default settings can be modified with 
C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>. 

=back 

The following methods are unsupported (not to mention futile!) and 
IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them: 

=over 4 

=item truncate 

=item stat 

=item ungetc 

=item setbuf 

=item setvbuf 

=item fdopen 

=item send/recv 

Note that send() and recv() cannot be reliably trapped by a tied filehandle 
(such as that used by IO::Socket::SSL) and so may send unencrypted data over the 
socket. Object-oriented calls to these functions will fail, telling you to use 
the print/printf/syswrite and read/sysread families instead. 

=back
=head1 DEPRECATEDS

The following functions are deprecated and are only retained for compatibility:

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.
Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply returns $self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or
require) inside the main thread before creating any other threads which use it.
This way it is much faster because it will be initialized only once. Also there
are reports that it might crash the other way.
Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behroozi, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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--- lib/IO/Socket.pm
+++ lib/IO/Socket.pm
@@ -172,11 +172,10 @@ my %DEFAULT_SSL_ARGS = (}
 SSL_npn_protocols => undef,  # meaning depends whether on server or client side
 SSL_alpn_protocols => undef,  # list of protocols we'll accept/send, for example ['http/1.1','spdy/3.1']

- # https://wiki.mozilla.org/Security/Server_Side_TLS, 2019/03/05
- # "Old backward compatibility" for best compatibility
- # .. "Most ciphers that are not clearly broken and dangerous to use are supported"
- # slightly reordered to prefer AES since it is cheaper when hardware accelerated
+ # Use system-wide default cipher list to support use of system-wide
+ # crypto policy (#1076390, #1127577, CPAN RT#97816)
+ # https://fedoraproject.org/wiki/Changes/CryptoPolicy
+ #SSL_cipher_list => 'PROFILE=SYSTEM',
+);

my %DEFAULT_SSL_CLIENT_ARGS = (}
@@ -186,63 +185,6 @@ my %DEFAULT_SSL_CLIENT_ARGS = (}
 SSL_ca_file => undef,

--- lib/IO/Socket.pm
SSL_ca_path => undef,

- # older versions of F5 BIG-IP hang when getting SSL client hello >255 bytes
- # http://guest:guest@rt.openssl.org/Ticket/Display.html?id=2771
- # Ubuntu worked around this by disabling TLSv1_2 on the client side for
- # a while. Later a padding extension was added to OpenSSL to work around
- # broken F5 but then IronPort croaked because it did not understand this
- # extension so it was disabled again :(
- # Firefox, Chrome and IE11 use TLSv1_2 but use only a few ciphers, so
- # that packet stays small enough. We try the same here.

- SSL_cipher_list => join(“ “),

- # SSLabs report for Chrome 48/OSX.
- # This also includes the fewer ciphers Firefox uses.
- 'ECDHE-ECDSA-AES128-GCM-SHA256',
- 'ECDHE-RSA-AES128-GCM-SHA256',
- 'DHE-RSA-AES128-GCM-SHA256',
- 'ECDHE-ECDSA-CHACHA20-POLY1305',
- 'ECDHE-RSA-CHACHA20-POLY1305',
- 'ECDHE-ECDSA-AES256-SHA',
- 'ECDHE-RSA-AES256-SHA',
- 'DHE-RSA-AES256-SHA',
- 'ECDHE-ECDSA-AES128-SHA',
- 'ECDHE-RSA-AES128-SHA',
- 'DHE-RSA-AES128-SHA',
- 'AES128-GCM-SHA256',
- 'AES256-SHA',
- 'AES128-SHA',
- 'DES-CBC3-SHA',

- # IE11/Edge has some more ciphers, notably SHA384 and DSS
- # we don't offer the *-AES128-SHA256 and *-AES256-SHA384 non-GCM
- # ciphers IE/Edge offers because they look like a large mismatch
- # between a very strong HMAC and a comparably weak (but sufficient)
- # encryption. Similar all browsers which do SHA384 can do ECDHE
- # so skip the DHE*-SHA384 ciphers.
- 'ECDHE-RSA-AES256-GCM-SHA384',
- 'ECDHE-ECDSA-AES256-GCM-SHA384',
- # 'ECDHE-RSA-AES256-SHA384',
- # 'ECDHE-ECDSA-AES256-SHA384',
- # 'ECDHE-RSA-AES128-SHA256',
- # 'ECDHE-ECDSA-AES128-SHA256',
- 'DHE-RSA-AES256-GCM-SHA384',
- # 'AES256-GCM-SHA384',
- # 'AES256-SHA256',
- # 'AES128-SHA256',

- 'DHE-DSS-AES256-SHA256',
- '#' 'DHE-DSS-AES128-SHA256',
- 'DHE-DSS-AES256-SHA',
- 'DHE-DSS-AES128-SHA',
- 'EDH-DSS-DES-CBC3-SHA',
-
- '# Just to make sure, that we don\'t accidentally add bad ciphers above.
- '# This includes dropping RC4 which is no longer supported by modern
- '# browsers and also excluded in the SSL libraries of Python and Ruby.
- "!EXP !MEDIUM !LOW !eNULL !aNULL !RC4 !DES !MD5 !PSK !SRP"
- )

);

# set values inside _init to work with perlcc, RT#95452
--- lib/IO/Socket/SSL.pod
+++ lib/IO/Socket/SSL.pod
@@ -1054,12 +1054,8 @@ documentation (L<http://www.openssl.org/
 for more details.

Unless you fail to contact your peer because of no shared ciphers it is
-recommended to leave this option at the default setting. The default setting
-prefers ciphers with forward secrecy, disables anonymous authentication and
-disables known insecure ciphers like MD5, DES etc. This gives a grade A result
-at the tests of SSL Labs.
-To use the less secure OpenSSL builtin default (whatever this is) set
-SSL_cipher_list to ".
+recommended to leave this option at the default setting, which honors the
+system-wide PROFILE=SYSTEM cipher list.

In case different cipher lists are needed for different SNI hosts a hash can be
given with the host as key and the cipher suite as value, similar to

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* /opt/cola/permits/1176900449_1654486173.131666/0/perl-IO-Socket-SSL-2.066-
  4.module+el8.3.0+6446+594cad75.src.rpm-cosi-expand-archive-3y1pcGDI/IO-Socket-SSL-2.066-use-system-
default-cipher-list.patch
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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cd1
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1401 commons-beanutils 1.8.3

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1.1402 libunistring 0.9.9 3.el8

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That's all there is to it!

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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1.1411 python-dasbus 1.2-2.el8

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jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/ws_local/PERMITS_SQL/1077218679_1601369213.19/0/asm-3-3-1-redhat-5-sources-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/ws_local/PERMITS_SQL/1077218679_1601369213.19/0/asm-3-3-1-redhat-5-sources-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1077218679_1601369213.19/0/asm-3-3-1-redhat-5-sources-
jar/org/objectweb/asm/xml/SAXClassAdapter.java

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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1.1425 unbound 1.7.3-17.el8

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1.1427 infinispan-cachestore-jdbc 5.2.7.Final-redhat-2

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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That's all there is to it!

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(id 1OEd8K-0004wo-An) Tue, 18 May 2010 23:52:00 -0700
Message-ID: <4BF38878.9030208@thedirks.org>
Date: Tue, 18 May 2010 23:43:04 -0700
From: Bill Dirks <bill@thedirks.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.9) Gecko/20100317 Thunderbird/3.0.4 MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: License question about v4l1-compat.c
References: <4BF2445B.2080203@redhat.com>
In-Reply-To: <4BF2445B.2080203@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-AntiAbuse: This header was added to track abuse, please include it with any abuse report
X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com
X-AntiAbuse: Original Domain - redhat.com
X-AntiAbuse: Originator/Caller UID/GID - [47 12] / [47 12]
X-AntiAbuse: Sender Address Domain - thedirks.org
X-Source:
X-Source-Args:
X-Source-Dir:
Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
> Hi Bill,
> 
> AFAIK you've been out of the v4l loop, so I assume you
don't know me, this let me start with a shot self introduction:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
too much free time and was looking for a hobby project and I
decided that improving webcam support under Linux would be
a nice project. At that time there were many webcam driver but
most of them were out of tree, including the gspca driver
which is a usb webcam driver framework supporting a lot
of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
to sit between v4l2 apps and devices which could do format
conversion if necessary. This resulted in libv4l2 and
libv4lconvert being written, with libv4l2 being the glue sitting
in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
one needs to do is write v4lx_open instead of plain open when opening
the device and them use v4lx_ioctl, etc. on the resulting fd instead
of their plain versions. This serves 2 purposes:
1) It makes porting of apps the the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such as skype).

And now (finally) my question to you, lately we (the v4l devs) have been working on removing the last bits of v4l1 from the kernel.
We would like to also remove the v4l1 ioctl compatibility (*), but currently libv4l1 depends on the v4l1 ioctl compatibility for some ioctls.

Fixing this comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. Thus my question is would it be ok to use your v4l1 compat code under the LGPL inside libv4l1?

Thanks & Regards,

Hans

(*) As in practice v4l1 apps need libv4l1 anyways both for format conversion and because some v4l2 drivers don't implement VIDIOCGBUF including rather important ones like the UVC driver, thus we've come to the conclusion that we might just as well drop the compatibility from the kernel
Hi,

> My question to you is would it be ok to use your v4l1 compat
c> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,

Gerd

#############################################################################
Hi All,

I'm writing you all because you've contributed patches to the kernels v4l1 ioctl compat code living in v4l1-compat.c

Most of you already know me, and know that I'm working on making libv4l1 become independent of the kernel v4l1 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code in the kernel.

Regards,

Hans Verkuil

> Thanks & Regards,
> Hans
>
> The long story:
>
> I'm a Linux enthusiast/developer. Amongst other things I've ported over many webcam drivers from v4l1 to v4l2 and I'm the author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had too much free time and was looking for a hobby project and I decided that improving webcam support under Linux would be a nice project. At that time there were many webcam driver but most of them were out of tree, including the gspca driver which is a usb webcam driver framework supporting a lot of different chipsets.
>
> One problem with getting these merged is that a lot of webcam chipsets produce proprietary (compressed) video formats, which apps don't understand. The out of tree drivers all "fixed" this by doing decompression and video format conversion inside the kernel.
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> This was not acceptable thus it was time to write a library to sit between v4l2 apps and devices which could do format conversion if necessary. This resulted in libv4l2 and libv4lconvert being written, with libv4l2 being the glue sitting in between and libv4lconvert doing the actual conversion.
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1) It makes porting of apps the the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such
as skype).

Lately we (the v4l devs) have been working on removing the last bits
of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
compatibility for some ioctls, we are working on fixing this
which involves re-using code from v4l1-compat.c, hence the
re-licensing permission question.

(*) As in practice v4l1 apps need libv4l1 anyways both for format
conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
including rather important ones like the UVC driver, thus we've
come to the conclusion that we might just as well drop the
compatibility from the kernel.

--
Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco
Hans de Goede wrote:
> Hi All,
> 
> I'm writing you all because you've contributed patches
to the kernels v4l1 ioctl compat code living in v4l1-compat.c
> 
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
> 
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
> 
> Making libv4l1 independent of the v4l1-compat.c code in the
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does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
> 
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

#---------------------------------------------------------------#

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/el/lang/VariableMapperImpl.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/core/StandardHostValve.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/filters/WebdavFixFilter.java
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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/util/http/fileupload/util/FileItemHeadersImpl.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/ssi/SSIProcessor.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/websocket/WsFrame.java
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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/el/MethodExpressionImpl.java
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// XXX - We use a proprietary call to the interpreter for now

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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/bayeux/UUIDGenerator.java
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/**
* Proprietary method to evaluate EL expressions. XXX - This method should
* go away once the EL interpreter moves out of JSTL and into its own
* project. For now, this is necessary because the standard machinery is too
* slow.
* *
* @param expression  
*     The expression to be evaluated
* @param expectedType  
*     The expected resulting type
* @param pageContext  
*     The page context
* @param functionMap  
*     Maps prefix and name to Method
* @return The result of the evaluation
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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/jni/Library.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/jni/Proc.java
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java
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jar/org/apache/tomcat/jni/Directory.java
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jar/org/apache/tomcat/util/buf/UEncoder.java
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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/deploy/jsp/TagInfo.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/deploy/jsp/TagFileInfo.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/filters/SETCharacterEncodingFilter.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/deploy/jsp/TagLibraryInfo.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/deploy/jsp/TagVariableInfo.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/deploy/jsp/TagLibraryValidatorInfo.java

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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/util/json/JSONWriter.java

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jar/org/apache/tomcat/util/json/JSONStringer.java

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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-
jar/org/apache/tomcat/util/json/JSONObject.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-
jar/org/apache/tomcat/util/json/JSONArray.java

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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/jasper/xmlparser/XMLStringBuffer.java  
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/jasper/xmlparser/SymbolTable.java  
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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/jasper/xmlparser/XMLEncodingDetector.java  
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/jasper/xmlparser/EncodingMap.java  
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* /opt/cola/permits/1258017250_1643022615.24/0/webbeans-spi-1-0-0-preview4-sp1-sources-jar/org/jboss/webbeans/bootstrap/api/Singleton.java
* /opt/cola/permits/1258017250_1643022615.24/0/webbeans-spi-1-0-0-preview4-sp1-sources-jar/org/jboss/webbeans/bootstrap/api/SingletonProvider.java

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* /opt/cola/permits/1258017250_1643022615.24/0/webbeans-spi-1-0-0-preview4-sp1-sources-jar/org/jboss/webbeans/ejb/spi/EjbDescriptor.java
* /opt/cola/permits/1258017250_1643022615.24/0/webbeans-spi-1-0-0-preview4-sp1-sources-jar/org/jboss/webbeans/bootstrap/spi/helpers/ForwardingBeanDeploymentArchive.java
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1.1439 cxf-rt-bindings-soap 2.7.18.SP6-redhat-1

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io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl

Found in path(s):
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io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1SchedulingAPIGroupExtensionAdapter
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io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1ApiextensionsAPIGroupExtensionAdapter
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io.fabric8.kubernetes.client.V1DiscoveryAPIGroupExtensionAdapter
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1.1444 audit4j-spring 2.5.0
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1.1450 liburcu 0.10.1-4.el8

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PemValue.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/flush/FlushDelegatingSslContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ipfilter/IPFilter.java
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1.1454 file 5.33-20.el8

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1.1455 hibernate-validator 4.3.1.Final-redhat-1

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1.1457 symlinks 1.4 19.el8

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1.1469 gstreamer-plugins-base 1.16.1-2.el8

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

1.1490 jetty-security 9.2.19.v20160908

1.1491 gstreamer 1.16.1 2.el8

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[This is the first released version of the library GPL. It is
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its purpose remains meaningful.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.1492 xdg-user-dirs-gtk 0.10-13.el8
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bzip2/libbz2 version 1.0.2 of 30 December 2001

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1.1504 gnome-screenshot 3.26.0-3.el8

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/*! */
/*! mustache.js - Logic-less {{mustache}} templates with JavaScript
* http://github.com/janl/mustache.js
*/

/*! */
/*! Sizzle CSS Selector Engine v2.3.5
* https://sizzlejs.com/
*
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/*! */
/*! [js-sha1](@link https://github.com/emn178/js-sha1) */
* @version 0.6.0
* @author Chen, Yi-Cyuan [emn178@gmail.com]
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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cockpit
Source: https://github.com/cockpit-project/cockpit
Comment:
This does not directly cover the files in dist/*. These are "minified" and
compressed JavaScript/HTML files built from pkg/* and node_modules/* with
node, npm, and webpack. Their copyrights and licenses are described below.
Rebuilding these requires internet access as that process needs to download
additional npm modules from the Internet, thus upstream ships the pre-minified
webpacks as part of the upstream release tarball so that the package can be
built without internet access and lots of extra unpackaged build dependencies.

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Files: src/retest/retest.h
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/*

object-assign
(c) Sindre Sorhus

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import argparse
import os
import re
import sys
import time

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#!/usr/bin/python3
# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
# Allison Karlitskaya <allison.karlitskaya@redhat.com>

import argpase
import os
import re
import sys
import time
own_copyright = f"Copyright (C) 2013 - {time.strftime('%Y')} Red Hat, Inc."

license_patterns = {
    # Common patterns
    r'\bMIT\b': ['MIT'],
    r'\bApache License v2.0\b': ['Apache-2.0'],

    # https://github.com/janl/mustache.js/blob/master/LICENSE
    r'\bmustache.js\b': ['MIT'],

    # https://github.com/focus-trap/focus-trap/blob/master/LICENSE
    r'\bfocus-trap\b': ['MIT'],
}

copyright_patterns = {
    # Common patterns
    r'Copyright (.*)$': ['\1'],
    r'@copyright (.*)$': ['\1'],
    r'\(c\) (.*)$': ['\1'],

    # https://github.com/janl/mustache.js/blob/master/LICENSE
    r'\bmustache.js\b': ['2009 Chris Wanstrath (Ruby)',
                        '2010-2014 Jan Lehnardt (JavaScript)',
                        '2010-2015 The mustache.js community'],

    # https://github.com/focus-trap/focus-trap/blob/master/LICENSE
    r'\bfocus-trap\b': ['2015-2016 David Clark'],

    # No copyright notices found
    r'\bDatepicker for Bootstrap\b': ['bootstrap-datepicker authors'],
}

used_patterns = set()

debian_dir = os.path.join(os.path.dirname(__file__), 'debian')
template_file = os.path.join(debian_dir, 'copyright.template')

def parse_args():
    p = argparse.ArgumentParser(description='Generate debian/copyright file from template and node_modules')
    return p.parse_args()

def template_licenses(template):
    """Return set of existing License: short names""
    ids = set()
    for line in template.splitlines():
        pass

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 15404
if line.startswith('License: '):
    ids.add(line.split(None, 1)[1].lower())
return ids

def find_patterns(patterns, text):
    results = set()

    for pattern, templates in patterns.items():
        for match in re.finditer(pattern, text, re.MULTILINE):
            used_patterns.add(pattern)
            results.update(match.expand(template) for template in templates)

    return results

# # main # #

args = parse_args()

with open(template_file, encoding='UTF-8') as f:
    template = f.read()

license_ids = template_licenses(template)

# scan dist/ webpacks for third-party copyrights and licenses

dist_copyrights = {}  # Files: dirglob  set(copyrights)
dist_licenses = {}  # Files: dirglob  set(licenses)

for directory, subdirs, files in os.walk('dist'):
    for file in files:
        if not file.endswith('.LICENSE.txt'):
            continue

        with open(os.path.join(directory, file)) as license_file:
            comments = license_file.read().split('

')

        for comment in comments:
            licenses = find_patterns(license_patterns, comment)
            if not licenses:
                raise SystemError('Can not determine licenses of:
%s' % comment)
            for license in licenses:
                if license.lower() not in license_ids:
                    raise KeyError('License {license} not found in {template_file}')
# All web packs also contain our own code
licenses.add("LGPL-2.1-or-later")

dist_licenses.setdefault(f'{directory}/*/\n', set()).update(licenses)

copyrights = find_patterns(copyright_patterns, comment)
if not copyrights:
    raise SystemError('Did not find any copyrights in:
%s' % comment)

# All web packs also contain our own code
copyrights.add(own_copyright)

dist_copyrights.setdefault(f'{directory}/*/\n', set()).update(copyrights)

for pattern in set.union(set(license_patterns), set(copyright_patterns)):
    if pattern not in used_patterns:
        # We'll have no LICENSE.txt files in that dev builds
        # so of course we won't use any of the patterns
        if os.getenv('NODE_ENV') == 'development':
            continue

        sys.exit(f'build-debian-copyright: Unused pattern: {pattern}')

paragraphs = []
for files in sorted(dist_copyrights):
    paragraphs.append("Files: {0}\nCopyright: {1}\nLicense: {2}\n".format(
        files,
        '
    '.join(sorted(dist_copyrights[files])),
        ' and '.join(sorted(dist_licenses[files]))))

    # force UTF-8 output, even when running in C locale
for line in template.splitlines():
    if '#NPM' in line:
        sys.stdout.buffer.write(\n    '.join(paragraphs).encode('UTF-8'))
    else:
        sys.stdout.buffer.write(line.encode('UTF-8'))

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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-
jar/org/osgi/resource/Resource.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-
jar/org/osgi/resource/Wire.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-
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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/framework/wiring/BundleRevision.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/framework/wiring/BundleWiring.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/framework/wiring/BundleRequirement.java
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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/jboss/osgi/resolver/spi/AbstractRequirement.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/jboss/osgi/resolver/XBundle.java
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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/jboss/osgi/resolver/spi/AbstractEnvironment.java

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/**
 * Test if a given requirement should be wired in the resolve operation. If
 * this method returns [@code false], then the resolver should ignore this
 * requirement during the resolve operation.
 * 
 * <p>
* The primary use case for this is to test the {@code effective} directive
* on the requirement, though implementations are free to use any effective
* test.
*
* @param requirement The Requirement to test. Must not be {@code null}.
* @return {@code true} if the requirement should be considered as part of
* the resolve operation.
*/

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jar/org/jboss/osgi/resolver/XElement.java
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1.1522 postgresql 42.2.5.jre7

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1.1523 cxf-rt-core 2.7.18.SP6-redhat-1

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xmlsec-mscrypto library

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The End

1.1540 gnome-calculator 3.28.2-2.el8

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org.jboss.logmanager.LogManager

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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/META-
INF/services/java.util.logging.LogManager
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 */

Found in path(s):
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/Configurator.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/ClassLoaderLogContextSelector.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/SerializedLogger.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/NDC.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/PropertyConfigurator.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/filters/LevelRangeFilter.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/Level.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/formatters/FormatStringParser.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/handlers/NullHandler.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/LogContext.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
  jar/org/jboss/logmanager/MDC.java
  */opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
jar/org/jboss/logmanager/ConfigurationLocator.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/formatters/PatternFormatter.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/handlers/FileHandler.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/handlers/SizeRotatingFileHandler.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/handlers/FlushableCloseable.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/handlers/UncloseableOutputStream.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/LoggingMXBeanImpl.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/filters/LevelFilter.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/handlers/LoggingUncaughtExceptionHandler.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/errormanager/OnlyOnceErrorManager.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-
1.1550 evolution-data-server 3.28.5-17.el8

1.1550.1 Available under license:

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1.1551 jbossjaccapi 1.0.2.Final
### 1.1551.1 Available under license:

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```java
/**
 * Creates a new WebUserDataPermission with the specified name and actions.
 * </p>
 *
 * The name contains a URLPatternSpec that identifies the web resources to which the permissions applies. The syntax
 * of a URLPatternSpec is as follows:
 *
 * URLPatternList ::= URLPattern | URLPatternList colon URLPattern
 *
 * URLPatternSpec ::= null | URLPattern | URLPattern colon URLPatternList
 *
 *
 * A null URLPatternSpec is translated to the default URLPattern, "/", by the permission constructor. The empty string is an exact URLPattern, and may occur anywhere in a URLPatternSpec that an exact URLPattern may occur. The first URLPattern in a URLPatternSpec may be any of the pattern types, exact, path-prefix, extension, or default as defined in the Java Servlet Specification). When a URLPatternSpec includes a URLPatternList, the patterns of the URLPatternList identify the resources to which the permission does NOT apply and depend on the pattern type and value of the first pattern as follows:
 *
 * No pattern may exist in the URLPatternList that matches the first pattern.
 * If the first pattern is a path-prefix pattern, only exact patterns matched by the first pattern and path-prefix patterns matched by, but different from, the first pattern may occur in the URLPatternList.
 * If the first pattern is an extension pattern, only exact patterns that are matched by the first pattern and path-prefix patterns may occur in the URLPatternList.
 * If the first pattern is the default pattern, "/", any pattern except the default pattern may occur in the URLPatternList.
 * If the first pattern is an exact pattern a URLPatternList must not be present in the URLPatternSpec.
 *
 * The actions parameter contains a comma separated list of HTTP methods that may be followed by a transportType separated from the HTTP method by a colon.
```
* ExtensionMethod ::= any token as defined by RFC 2616
  (that is, 1*[any CHAR except CTLs or separators])

  * HTTPMethod ::= "Get" | "POST" | "PUT" | "DELETE" | "HEAD" |
  "OPTIONS" | "TRACE" | ExtensionMethod

  * HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod

  * HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList

  * HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList |
    HTTPMethodList

  * transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"

  * actions ::= null | HTTPMethodSpec |
    HTTPMethodSpec colon transportType

  </pre>

  * </p>

  * </pre>

  * </p>

  * </p>

  * If duplicates occur in the HTTPMethodSpec they must be eliminated by the permission constructor.

  * </p>

  * </p>

  * An empty string HTTPMethodSpec is a shorthand for a List containing all the possible HTTP methods.

  * </p>

  * </p>

  * An actions string without a transportType is a shorthand for a actions string with the value "NONE" as its
  TransportType.

  * </p>

  * </p>

  * A granted permission representing a transportType of "NONE", indicates that the associated resources may be
  accessed using any connection type.

  * </p>

  * @param name

    - the URLPatternSpec that identifies the application specific web resources to which the permission
    pertains. All URLPatterns in the URLPatternSpec are relative to the context path of the deployed web
    application module, and the same URLPattern must not occur more than once in a URLPatternSpec. A null
    URLPatternSpec is translated to the default URLPattern, "/", by the permission constructor. All colons
    occurring within the URLPattern elements of the URLPatternSpec must be represented in escaped
encoding
* as defined in RFC 2396.
* @param actions
* - identifies the HTTP methods and transport type to which the permission pertains. If the value passed
* through this parameter is null or the empty string, then the permission is constructed with actions
* corresponding to all the possible HTTP methods and transportType "NONE".
* /
/**
* <p>
* Returns a canonical String representation of the actions of this WebUserDataPermission. The canonical form of
* the
* actions of a WebUserDataPermission is described by the following syntax description.
* *
* *
* <pre>
* ExtensionMethod ::= any token as defined by RFC 2616
* (that is, 1*[any CHAR except CTLs or separators])
* HTTPMethod ::= "GET" | "POST" | "PUT" | "DELETE" | "HEAD" |
* "OPTIONS" | "TRACE" | ExtensionMethod
* HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod
* HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList
* HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList |
* HTTPMethodList
* transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"
* actions ::= null | HTTPMethodList | HTTPMethodSpec colon transportType
* </pre>
* *
* *
* <p>
* If the permission's HTTP methods include the entire HTTP method set and the permission's transport type is
* "INTEGRAL" or "CONFIDENTIAL", the HTTP methods shall be represented in the canonical form by an
* empty string
* HTTPMethodSpec. If the permission's HTTP methods include the entire HTTP method set and the permission's
* transport
* type is not "INTEGRAL"or "CONFIDENTIAL", the canonical actions value shall be the null value.
* </p>
* *
* *
* <p>
* If the permission's methods do not include the entire HTTP method set, duplicates must be eliminated and the
* remaining elements must be sorted into ascending lexical order. The resulting HTTPMethodList must be
* included in
* the canonical form, and if the permission's transport type is not "INTEGRAL" or "CONFIDENTIAL", the
* canonical
* actions value must be exactly the resulting HTTPMethodList.
* </p>
* *
* @return a String containing the canonicalized actions of this WebUserDataPermission (or the null value).
1.1552 libfastjson 0.99.9-1.el8

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1.1553 python-linux-procfs 0.6.3-1.el8

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
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jar/javax/validation/GroupDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
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jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ParameterNameProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/NoProviderFoundException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/NotBlank.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Constraint.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Valid.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/ClockProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Configuration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/executable/ValidateOnExecution.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/Size.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/constraints/PastOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-

jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/o/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java

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1.1556 smc-fonts 6.1-10.el8

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Copyright (C) <year>  <name of author>

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1592 swagger-jaxrs 1.3.0
1.1592.1 Available under license:
No license file was found, but licenses were detected in source scan.

```scala
package com.wordnik.swagger.jaxrs.config

import com.wordnik.swagger.annotations.Api
import com.wordnik.swagger.core.{SwaggerContext, SwaggerSpec}
import com.wordnik.swagger.model.ApiInfo
import com.wordnik.swagger.jaxrs.reader.DefaultJaxrsApiReader
import com.wordnik.swagger.config._
import com.wordnik.swagger.reader._

import org.reflections.Reflections
import org.reflections.scanners.{SubTypesScanner, TypeAnnotationsScanner}
import org.reflections.util.{ClasspathHelper, ConfigurationBuilder}
import org.slf4j.LoggerFactory
import javax.servlet.ServletConfig
import javax.ws.rs.core.Application
import scala.collection.JavaConverters
import scala.reflect.BeanProperty

class BeanConfig extends JaxrsScanner {
  private val LOGGER = LoggerFactory.getLogger(classOf[BeanConfig])

  ConfigFactory.config = new SwaggerConfig
  ClassReaders.reader = Some(new DefaultJaxrsApiReader)

  @BeanProperty var resourcePackage: String = _
  @BeanProperty var title: String = _
  @BeanProperty var description: String = _
  @BeanProperty var termsOfServiceUrl: String = _
  @BeanProperty var contact: String = _
  @BeanProperty var license: String = _
  @BeanProperty var licenseUrl: String = _

  def setScan(shouldScan: Boolean) = {
    if (title != null || description != null || termsOfServiceUrl != null || contact != null || license != null || licenseUrl != null || resourcePackage != null) {
      if (shouldScan) {
          // Set the scan configuration
          ConfigFactory.config = new SwaggerConfig
          ClassReaders.reader = Some(new DefaultJaxrsApiReader)
      }
      // Other configurations
    }
  }
```

null) {
    ConfigFactory.config.info = Some(ApiInfo(title, description, termsOfServiceUrl, contact, license, licenseUrl))
}  
ScannerFactory.scanner = Some(this)

}
def getScan() = true

def classesFromContext(app: Application, sc: ServletConfig) : List[Class[_]] = {
    val config = new ConfigurationBuilder().setUrls(ClasspathHelper.forPackage(resourcePackage)).setScanners(
        new TypeAnnotationsScanner(), new SubTypesScanner())
    new Reflections(config).getTypesAnnotatedWith(classOf[Api]).asScala.toList
}
def setApiReader(reader: String) = {
    try{
        val cls = SwaggerContext.loadClass(reader).newInstance.asInstanceOf[ClassReader]
        ClassReaders.reader = Some(cls)
    } catch {
        case e: Exception => LOGGER.error("failed to load reader class %s".format(reader))
    }
}
def getApiReader(): String = ClassReaders.reader match {
    case Some(cls) => cls.getClass.getName
    case _ => ""
}
def getVersion(): String = ConfigFactory.config.apiVersion

def setBasePath(basePath: String) = ConfigFactory.config.basePath = basePath

def getBasePath(): String = ConfigFactory.config.basePath

}

Found in path(s):
* /opt/cola/permits/1258016915_1643022560.69/0/swagger-jaxrs-2-10-1-3-0-sources-jar/com/wordnik/swagger/jaxrs/config/BeanConfig.scala

1.1593 perl-pathtools 3.74-1.el8

1.1593.1 Available under license:
    No license file was found, but licenses were detected in source scan.

=head1 NAME
=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

    canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

    devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C:<ALL> tag.

=head1 COPYRIGHT
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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Functions.pm

No license file was found, but licenses were detected in source scan.

/* See
 * for the details of why the BSD license is compatible with the
 * AL/GPL standard perl license.
 */
/*
 * Copyright (c) 2003 Constantin S. Svintsoff <kostik@iclub.nsu.ru>
 *
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 * modification, are permitted provided that the following conditions
 * are met:
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 * notice, this list of conditions and the following disclaimer.
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 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.xs

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.39

Automatically created by Devel::PPPort running under perl 5.027009.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help     show short help
--version  show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag          don't show diagnostics
--nohints         don't show hints
--nochanges       don't suggest changes
--nofilter        don't filter input files

--strip           strip all script and doc functionality
                  from ppport.h

--list-provided   list provided API
--list-unsupported list unsupported API
--api-info=name   show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>
Manually set the diff program and options to use. The default is to use C\text{Text::Diff}, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don’t print anything except fatal errors.

=head2 --nodiag

Don’t output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don’t output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don’t suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don’t filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.
If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>SvRX()</td>
<td>NEED_SvRX</td>
<td>NEED_SvRX_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>croak_xs_usage()</td>
<td>NEED_croak_xs_usage</td>
<td>NEED_croak_xs_usage_GLOBAL</td>
</tr>
<tr>
<td>die_sv()</td>
<td>NEED_die_sv</td>
<td>NEED_die Sv_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>gv_fetchpvn_flags()</td>
<td>NEED_gv_fetchpvn_flags</td>
<td>NEED_gv_fetchpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>mess()</td>
<td>NEED_mess</td>
<td>NEED_mess_GLOBAL</td>
</tr>
<tr>
<td>mess_nocontext()</td>
<td>NEED_mess_nocontext</td>
<td>NEED_mess_nocontext_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:
perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS
If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval "${^RE_TRIE_MAXBUF} = -1" if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.39;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[(\w.]+)\]/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '\[ \t\]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '*./';
my $rcce = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw( help quiet diag! filter! hints! changes! cplusplus strip version patch=s copy=s diff=s compat-version=s list-provided list-unsupported api-info=s )) or usage();
};

if ($@ and grep /\^-\//, @ARGV) {
    usage() if "@ARGV" =~ /^\^-\~h(.*\?l)p$/$;
    die "Getopt::Long not found. Please don't use any options\n";
}
if ($opt{version}) {
    print "This is $0 $VERSION
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}
    }
    die "Only Perl 5 is supported
    die "Invalid version number: $opt{'compat-version'}
    $opt['compat-version'] = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt['compat-version'] = 5;
}

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|\w*$/ ? { ($1 => {
            ($2 ? ( base => $2 ) : ()),
            ($3 ? ( todo => $3 ) : ()),
            (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
            (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
            (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
        }) : die "invalid spec: $_" } qw(
    ASCII_TO_NEED|5.007000
    AvFILL|5.004050
    BhkDISABLE|5.024000
    BhkENTRY|5.024000
    BhkENTRY_set|5.024000
    BhkFLAGS
    CALL_BLOCK_HOOKS
    CLASS
    CPERLscope|5.005000
    CX_CURPAD_SAVE
    CX_CURPAD_SV
    C_ARRAY_END|5.013000
    C_ARRAY_LENGTH|5.008000
    CopFILEAV|5.006000
    CopFILEGV_set|5.006000
)
HeSVKEY|5.003070|
HeUTF8|5.010001|5.008000|p
HeVAL|5.003070|
HvENAMELEN|5.015004|
HvENAMEUTF8|5.015004|
HvENAME|5.013007|
HvENAMELEN_get|5.009003|p
HvNAMELEN|5.015004|
HvNAMEUTF8|5.015004|
HvNAME_get|5.009003|p
HvNAME||
INT2PTR|5.006000|p
IN_LOCALE_COMPILETIME|5.007002|p
IN_LOCALE_RUNTIME|5.007002|p
IN_LOCALE|5.007002|p
IN_PERL_COMPILETIME|5.008001|p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002|p
IS_NUMBER_INFINITY|5.007002|p
IS_NUMBER_IN_UV|5.007002|p
IS_NUMBER_NAN|5.007003|p
IS_NUMBER_NEG|5.007002|p
IS_NUMBER_NOT_INT|5.007002|p
IVSIZE|5.006000|p
IVTYPE|5.006000|p
IVdf|5.006000|p
LEAVE||
LINKLIST|5.013006|
LVRET||
MARK||
MULTICALL|5.024000|
MUTABLE_PTR|5.010001|p
MUTABLE_SV|5.010001|p
MY_CXT_CLONE|5.009002|p
MY_CXT_INIT|5.007003|p
MY_CXT|5.007003|p
MoveD|5.009002|5.004050|p
Move||
NATIVE_TO_NEED|5.007001|n
NOOP|5.005000|p
NUM2PTR|5.006000|p
NVTYPE|5.006000|p
NVef|5.006001|p
NVrf|5.006001|p
NVgf|5.006001|p
Newxc|5.009003|p
Newxz|5.009003|p
Newx|5.009003|p
Nullav||
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PERL_MAGIC_deelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.024000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.024000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.024000||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.024000||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_tie|5.007002||p
PERL_MAGIC_ut8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_REGPROP|5.009004||p
PERL_PV_ESCAPE_REGPROP|5.009004||p
PERL_PV_ESCAPE_LTGT|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.003070||p
SvPV_nomg_const_nolen[5.009003]|p
SvPV_nomg_const[5.009003]|p
SvPV_nomg_nolen[5.013007]|p
SvPV_nomg[5.007002]|p
SvPV_renew[5.009003]|p
SvPV_set||p
SvPVbyte_force[5.009002]
SvPVbyte_nolen[5.006000]
SvPVbyte_force[5.006000]
SvPVbyte[5.006000]|p
SvPVutf8_force[5.006000]
SvPVutf8_nolen[5.006000]
SvPVutf8x_force[5.006000]
SvPVutf8[5.006000]|p
SvPVx[5.006000]
SvPV||p
SvREFCNT_dec_NN[5.017007]
SvREFCNT_dec||p
SvREFCNT_inc_NN[5.009004]|p
SvREFCNT_inc_simple_NN[5.009004]|p
SvREFCNT_inc_simple_void_NN[5.009004]|p
SvREFCNT_inc_simple_void[5.009004]|p
SvREFCNT_inc_void_NN[5.009004]|p
SvREFCNT_inc_void[5.009004]|p
SvREFCNT_inc||p
SvREFCNT||p
SvROK_off||p
SvROK_on||p
SvRV_set[5.009003]|p
SvRV||p
SvRXOK[5.009005]|p
SvRX[5.009005]|p
SvSETMAGIC||p
SvSHAREN[5.009003]|p
SvSHARE[5.007003]
SvSTASH_set[5.009003]|p
SvSTASH||p
SvSetMagicSV_nosteal[5.004000]
SvSetMagicSV[5.004000]
SvSetSV_nosteal[5.004000]
SvSetSV||p
SvTAINTED_off[5.004000]
SvTAINTED_on[5.004000]
SvTAINTED[5.004000]
XSRETURN\_YES\|||
XSRETURN\|p
XST\_mIV\|||
XST\_mNO\|||
XST\_mNV\|||
XST\_mPV\|||
XST\_mUNDEF\|||
XST\_mUV|5.008001|p
XST\_mYES\|||
XS\_APIVERSION\_BOOTCHECK|5.024000|
XS\_EXTERNAL|5.024000|
XS\_INTERNAL|5.024000|
XS\_VERSION\_BOOTCHECK|5.024000|
XS\_VERSION\|||
XSprePUSH|5.006000|p
XS\|||
XopDISABLE|5.024000|
XopENABLE|5.024000|
XopENTRYCUSTOM|5.024000|
XopENTRY\_set|5.024000|
XopENTRY|5.024000|
XopFLAGS|5.013007|
ZeroD|5.009002|p
Zero\|||
_aMY\_CXT|5.007003|p
_add_range_to_invlist\|||
_append_range_to_invlist\|||
_core\_swash\_init\|||
_get\_encoding\|||
_get\_regclass\_nonbitmap\_data\|||
_get\_swash\_invlist\|||
_invlistEQ\|||
_invlist\_array\_init\|||n
_invlist\_contains\_cp\|||n
_invlist\_dump\|||
_invlist\_intersection\_maybe\_complement\_2nd\|||
_invlist\_intersection\|||
_invlist\_invert\|||
_invlist\_len\|||n
_invlist\_populate\_swatch\|||n
_invlist\_search\|||n
_invlist\_subtract\|||
_invlist\_union\_maybe\_complement\_2nd\|||
_invlist\_union\|||
_is\_cur\_LC\_category\_utf8\|||
_is\_in\_locale\_category|5.021001|
_is\_uni\_FOO|5.017008|
_is\_uni\_perl\_idcont|5.017008|
cop_free

cop_hints_2hv

cop_hints_fetch_pvn

cop_hints_fetch_pvs

cop_hints_fetch_pv

cop_hints_fetch_sv

cop_store_label

cophh_2hv

cophh_copy

cophh_delete_pvn

cophh_delete_pvs

cophh_delete_pv

cophh_delete_sv

cophh_fetch_pvn

cophh_fetch_pvs

cophh_fetch_pv

cophh_fetch_sv

cophh_free

cophh_new_empty

cophh_store_pvn

cophh_store_pvs

cophh_store_pv

cophh_store_sv

core_prototype

coresub_op

cr_textfilter

croak_memory_wrap

croak_no_mem

croak_no_modify

croak_nocontext

croak_popstack

croak_sv

croak_xs_usage

croak

csighandler

current_re_engine

curse

custom_op_desc

custom_op_get_field

custom_op_name

custom_op_register

custom_op_xop

cv_ckproto_len_flags

cv_clone_into

cv_clone

cv_const_sv_or_av

cv_const_sv

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do_magic_dump||5.006000|
do_msgrcv||
do_msgsnd||
doncmp||
dooddball||
do_op_dump||5.006000|
do_open6||
do_open9||5.006000|
do_open_raw||
do_open||5.007001|
do_open||5.003070|
do_pmop_dump||5.006000|
do_print||
do_readline||
doseek||
dosemop||
doshmio||
do_smartmatch||
do_spawn_nowait||
do_spawn||
dosprintf||
dosv_dump||5.006000|
dosysseek||
dotell||
do_trans_complex_utf8||
do_trans_complex||
do_trans_count_utf8||
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
dovget||
dovget||
dovget||
dovop||
docatch||
doeval_compile||
dofile||
dofindlabel||
doform||
doing_taint||5.008001|
doone_liner||
doopen_pm||
doparse_form||
dopoptoeval||
dopoptogivenfor||
dopoptolabel||
dopopto_loop||
dopoptsu_b_at||
hv_riter_set
hv_scalar
hv_store_ent
hv_store_flags
hv_stores
hv_store
hv_undef_flags
hv_undef
ibcmp_locale
ibcmp_utf8
ibcmp
incline
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_consts
init_dbargs
init_debugger
init_global_struct
init_i18n10n
init_i18n14n
init_ids
init_interp
init_main_stash
init_perlib
init_postdump_symbols
init_predump_symbols
init_stacks
init_tm
inplace_aassign
instr
intro_my
intuit_method
intuit_more
invert
invlist_array
invlist_clear
invlist_clone
invlist_contents
invlist_extend
invlist_highest
invlist_is_iterating
invlist_iterfinish
invlist_iterinit
invlist_iternext
invlist_max
invlist_previous_index|||n
invlist_replace_list_destroys_src||
invlist_set_len||
invlist_set_previous_index|||n
invlist_trim||n
invoke_exception_hook|||
io_close|||
isALNUM||5.006000||p
isALNUM_lazy||5.021001
isALPHANUMERIC||5.017008
isALPHA|||
isASCII||5.006000||p
isBLANK||5.006001||p
isCNTRL||5.006000||p
isDIGIT|||
isFOO_lc|||
isFOO_utf8_lc|||
isGCB||n
isGRAPH||5.006000||p
isIDCONT||5.017008
isIDFIRST_lazy||5.021001
isIDFIRST|||
isLB|||
isLOWER|||
isOCTAL||5.013005|
isPRINT||5.004000||p
isPSXSPC||5.006001||p
isPUNCT||5.006000||p
isSB|||
isSPACE|||
isUPPER|||
isUTF8_CHAR||5.021001
isWB|||
isWORDCHAR||5.013006
isXDIGIT||5.006000||p
is_an_int|||
is_ascii_string||5.011000
is_handle_constructor|||n
is_invariant_string||5.021007||n
is_Ivalue_sub||5.007001
is_safe_syscall||5.019004
is_ssc_worth_it|||n
is_uni_alnum_lc||5.006000|
is_uni_alnumc_lc||5.017007
is_uni_alnum||5.017007
is_uni_alnum||5.006000
is_uni_alpha_lc||5.006000
is_uni_alpha||5.006000
magic_cleararylen_p
magic_clearenv
magic_clearhints
magic_clearhint
magic_clearisa
magic_clearpack
magic_clearsig
magic_copycallchecker
magic_dump
magic_existspack
magic_freearylen_p
magic_freeovrld
magic_getarylen
magic_getdebugvar
magic_getdefelem
magic_getnkeys
magic_getpack
magic_getpos
magic_getsig
magic_getsubstr
magic_gettaint
magic_getuvar
magic_getvec
magic_get
magic_killbackrefs
magic_methcall1
magic_methcall
magic_methpack
magic_nextpack
magic_regdata_cnt
magic_regdatum_get
magic_regdatum_set
magic_scalarpack
magic_set_all_env
magic_setarylen
magic_setcollxfrm
magic_setdbline
magic_setdebugvar
magic_setdefelem
magic_setenv
magic_sethint
magic_setisa
magic_setlvref
magic_setmglob
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setregexp
magic_setsig
magic_setsubstr
magic_settaint
magic_setutf8
magic_setuvar
magic_setvec
magic_set
magic_sizepack
magic_wipepack
make_matcher
make_trie
malloc_good_size
malloced_size
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markstack_grow[5.021001]
matcher_matches_sv
maybe_multimagic_gv
mayberelocate
measure_struct
memEQs[5.009005]
memEQ[5.004000]
memNEs[5.009005]
memNE[5.004000]
mem_collxfrm
mem_log_alloc
mem_log_common
mem_log_free
mem_log_realloc
mess_alloc
mess_nocontext
mess_sv[5.013001]
mess[5.006000]
mfree[5.007002]
mg_clear
mg_copy
mg_dup
mg_find_mglob
mg_findext[5.013008]
mg_find[5.013006]
mg_free
mg_get
mg_length[5.005000]
mg_localize
mg_magical
mg_set
mg_size[5.005000]
mini_mktime[5.007002]
newXS_flags||5.009004
newXS_len_flags||
newXSproto||5.006000
newXS||5.006000
new_collate||5.006000
new_constant||
new_cetype||5.006000
new_cHe||
new_logop||
new_numeric||5.006000
new_stackinfo||5.005000
new_version||5.009000
new_warnings_bitfield||
next_symbol||
nextargv||
nextchar||
ninstr||
no_bareword_allowed||
no_fh_allowed||
no_op||
noperl_die||
not_a_number||
not_incrementable||
nothreadhook||5.008000
nuke_stacks||
um_overflow||
oopsAV||
oopsHV||
op_append_elem||5.013006
op_append_list||5.013006
op_clear||
op_contextualize||5.013006
op_convert_list||5.021006
op_dump||5.006000
op_free||
op_integerize||
op_linklist||5.013006
op_lvalue_flags||
op_lvalue||5.013007
op_null||5.007002
op_parent||
op_prepend_elem||5.013006
op_refcnt_decr||
op_refcnt_incr||
op_refcnt_lock||5.009002
op_refcnt_unlock||5.009002
op_relocate_sv||
op_scope||5.013007
op_sibling_splice\[5.021002\n
op_std_init||

op_unscope||

open_script||

open_cleanup||

open_setup||

opmethod_stash||

opslab_force_free||

opslab_free_nopad||

opslab_free||

output_or_return_posix_warnings||

pMY_CXT\[5.007003\]|p

pMY_CXT\[5.007003\]|p

pTHX\[5.006000\]|p

pTHX\[5.006000\]|p

packWARN\[5.007003\]|p

pack_cat\[5.007003\]

pack_rec||

package_version||

package||

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pad_add_anon\[5.008001\]

pad_add_name_pvn\[5.015001\]

pad_add_name_pvs\[5.015001\]

pad_add_name_pv\[5.015001\]

pad_add_name_sv\[5.015001\]

pad_add_weakref||

pad_alloc_name||

pad_alloc||

pad_block_start||

pad_check_dup||

pad_compname_type\[5.009003\]

pad_findlex||

pad_findmy_pvn\[5.015001\]

pad_findmy_pvs\[5.015001\]

pad_findmy_pv\[5.015001\]

pad_findmy_sv\[5.015001\]

pad_fixup_inner_anons||

pad_free||

pad_leavemy||

pad_new\[5.008001\]

pad_push||

pad_reset||

pad_setsv||

pad_sv||

pad_swipe||

pad_tidy\[5.008001\]

padlist_dup||
pregfree
prescan_version|5.011004|
printf_nocontext|vn
process_special_blocks
ptr_hash
ptr_table_clear|5.009005|
ptr_table_fetch|5.009005|
ptr_table_find
ptr_table_free|5.009005|
ptr_table_new|5.009005|
ptr_table_split|5.009005|
ptr_table_store|5.009005|
push_scope
put_charclass_bitmap_innards_common
put_charclass_bitmap_innards_invlist
put_charclass_bitmap_innards
put_code_point
put_range
pv_display|5.006000|p
pv_escape|5.009004|p
pv_pretty|5.009004|p
pv_uni_display|5.007003|
qerror
qsortsvu
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quadmath_format_single
re_compile|5.009005|
re_croak2
re_dup_guts
re_exec_indentf|v
re_indentf|v
re_intuit_start|5.019001|
re_intuit_string|5.006000|
re_op_compile|v
re_printf|v
realloc|5.007002
reentrant_free|5.024000|
reentrant_init|5.024000|
reentrant_retry|5.024000|vn
reentrant_size|5.024000|
ref_array_or_hash
refcounted_he_chain_2hv
refcounted_he_fetch_pvn
refcounted_he_fetch_pvs
refcounted_he_fetch_pv
refcounted_he_fetch_sv
refcounted_he_free

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save_bool[5.008001]
save_clearsv[]
save_delete[]
saveDestructor_x[5.006000]
saveDestructor[5.006000]
save_freeop[]
save_freepv[]
save_freesv[]
save_generic_pvref[5.006001]
save_generic_svref[5.005030]
save_ep[5.004000]
save_hash[]
save_hdelete[5.011000]
save_hek_flags][n
save_helem_flags[5.011000]
save_helem[5.004050]
save_hints[5.010001]
save_hptr[]
save_int[]
save_item[]
save_iv[5.005000]
save_lines[]
save_list[]
save_long[]
save_magic_flags[]
save_mortalizesv[5.007001]
save_nogv[]
save_op[5.005000]
save_padsv_and_mortalize[5.010001]
save_pptr[]
save_push32ptr[5.010001]
save_pushptr32ptr[]
save_pushptrptr[5.010001]
save_pushptr[5.010001]
save_re_context[5.006000]
save_scalar_at[]
save_scalar[]
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_spv[]
save_strlen[]
save_svref[]
save_vptr[5.006000]
savepvn[]
savepvs[5.009003]
savepv[]
savesharedpvn[5.009005]
savesharedpvs[5.013006]
sv_2mortal
sv_2num
sv_2nv_flags|5.013001|
sv_2pv_flags|5.007002|p
sv_2pv_nolen|5.006000|p
sv_2pvbyte_nolen|5.006000|p
sv_2pvbyte|5.006000|p
sv_2pvutf8_nolen|5.006000|
sv_2pvutf8|5.006000|
sv_2pv||
sv_2uv_flags|5.009001|
sv_2uv|5.004000|p
sv_add_arena||
sv_add_backref||
sv_backoff||
sv_bless||
sv_buf_to_ro||
sv_buf_to_rw||
sv_cat_decode|5.008001|
sv_catpvcv_flags|5.013006|
sv_catpvcv_mg|5.004050|p
sv_catpvcv_nomg|5.013006|
sv_catpvcv_mg_nocontext|p|v
sv_catpvcv_mg|5.006000|5.004000|p|v
sv_catpvcv_nocontext|v
sv_catpvcv|5.004000|v
sv_catpvcv_flags|5.013006|
sv_catpvcv|5.004000|v
sv_catpvcv|5.004050|p
sv_catpvcv_nomg|5.007002|p
sv_catpvcv|5.004000|v
sv_catpvcv|5.004050|p
sv_catpvcv_nomg|5.007002|p
sv_catpvcv||
sv_catpvs_flags|5.013006|
sv_catpvs_mg|5.013006|
sv_catpvs_nomg|5.013006|
sv_catpvs|5.009003|p
sv_catpvcv||
sv_catsv_flags|5.007002|
sv_catsv_mg|5.004050|p
sv_catsv_nomg|5.007002|p
sv_catsv||
sv_chop||
sv_clean_all||
sv_clean_objs||
sv_clear||
sv_cmp_flags|5.013006|
sv_cmpLocale_flags|5.013006|
sv_cmplocale|5.004000|
sv_cmp||
sv_collxfrm_flags|5.013006|
sv_setpvf_nocontext|||vn
sv_setpvf[5.004000]v
sv_setpviv_mg[5.008001]
sv_setpviv[5.008001]
sv_setpvn_mg[5.004050]|p
sv_setpvn||
sv_setpvs_mg[5.013006]
sv_setpvs[5.009004]|p
sv_setpv||
sv_setref_iv||
sv_setref_nv||
sv_setref_pvn||
sv_setref_pvs[5.024000]
sv_setref_pv||
sv_setref_uv[5.007001]
sv_setsv_cow||
sv_setsv_flags[5.007002]
sv_setsv_mg[5.004050]|p
sv_setsv_nomg[5.007002]|p
sv_setsv||
sv_setuv_mg[5.004050]|p
sv_setuv[5.004000]|p
sv_tainted[5.004000]
sv_taint[5.004000]
sv_true[5.005000]
sv_unglob||
sv_uni_display[5.007003]
sv_unmagicext[5.013008]|p
sv_unmagic||
sv_unref_flags[5.007001]
sv_unref||
sv_untaint[5.004000]
sv_upgrade||
sv_usepvn_flags[5.009004]
sv_usepvn_mg[5.004050]|p
sv_usepvn||
sv_utf8_decode[5.006000]
sv_utf8_downgrade[5.006000]
sv_utf8_encode[5.006000]
sv_utf8_upgrade_flags_grow[5.011000]
sv_utf8_upgrade_flags[5.007002]
sv_utf8_upgrade_nomg[5.007002]
sv_utf8_upgrade[5.007001]
sv_uv[5.005000]|p
sv_vcatpvf_mg[5.006000][5.004000]|p
sv_vcatpvfn_flags[5.017002]
sv_vcatpvfn[5.004000]
sv_vcatpvf[5.006000][5.004000]|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn|5.004000|
sv_vsetpvf|5.006000|5.004000|p
svtype=|
swallow_bom=|
swash_fetch|5.007002|
swash_init|5.006000|
swash_scan_list_line=|
swatch_get=|
sync_locale|5.021004|
sys_init3|5.010000|n
sys_init|5.010000|n
sys_intern_clear=|
sys_intern_dup=|
sys_intern_init=|
sys_term|5.010000|n
taint_env=|
taint_proper=|
tied_method=v
tmps_grow_p=|
toFOLD_utf8|5.019001|
toFOLD_uvchr|5.023009|
toFOLD|5.019001|
toLOWER_L1|5.019001|
toLOWER_LC|5.004000|
toLOWER_ut8|5.015007|
toLOWER_uvchr|5.023009|
toLOWER=|
toTITLE_ut8|5.015007|
toTITLE_uvchr|5.023009|
toTITLE|5.019001|
toupper_ut8|5.015007|
toupper_uvchr|5.023009|
toupper=|
to_byte_substr=|
to_lower_latin1=n
to_uni_fold|5.007003|
to_uni_lower_lc|5.006000|
to_uni_lower|5.007003|
to_uni_title_lc|5.006000|
to_uni_title|5.007003|
to_uni_upper_lc|5.006000|
to_uni_upper|5.007003|
to_utf8_case|5.007003|
to_utf8_fold|5.015007|
to_utf8_lower|5.015007|
to_utf8_substr=|
to_utf8_title|5.015007|
to_utf8_upper

tokenize_use

tokeq

tokereport

too_few_arguments_pv

too_many_arguments_pv

translate_substr_offsets

try_amagic_bin

try_amagic_un

uiv_2buf

unlk

unpack_rec

unpack_str

unpackstring

unreferenced_to_tmp_stack

unshare_hek_or_pvni

unshare_hek

unsharepvn

unwind_handler_stack

update_debugger_info

upg_version

usage

utf16_textfilter

utf16_to_utf8_reversed

utf16_to_utf8

utf8_distance

utf8_hopt

utf8_length

utf8_mg_len_cache_update

utf8_mg_pos_cache_update

utf8_to_bytes

utf8_to_uvchr_buf

utf8_to_uvchr

utf8_to_uvuni_buf

utf8_to_uvuni

utf8n_to_uvchr

utf8n_to_uvuni

utilize

uvchr_to_utf8_flags

uvchr_to_utf8

uvofunii_to_utf8_flags

uvuni_to_utf8_flags

uvuni_to_utf8

valid_utf8_to_uvchr

valid_utf8_to_uvuni

validate_proto

validate_suid

varname
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
    }
}
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}

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$define = [\$1, \$2] if m{\^\$s*#s*define\$s+\{$w+\}(?:\[(^\$])*$\}?s+\{$.\})};

if ($function) {
    if (/^\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    }
    else {
        $function->[1] .= $_;
    }
}

$f = [\$1] if m{^DPPP\_(my\_\{$w+\})};

$replace    = $1 if m{\^\$s*$rcc$s+Replace\$s+\{$d+\}\$s+$rcc$s*\$};
$replace{$2} = $1 if m{^\$s*$rcc$s+Replace\$s+\{$w+\}\$s+$rcc$s*\$};
$replace{$2} = $1 if m{^\$s*$rcc$s+Replace\$s+\{$w+\}\$s+$rcc$s*\$};
$replace{$2} = $1 if m{^\$s*$rcc$s+Replace\$s+\{$w+\}\$s+$rcc$s*\$};

if (m{^\$s*$rcc$s+\{$w+\}(\{$s*,\$s*$w+\}*\$s+\{$rcc$s*\$});})
    my @deps = map { s/\s+//g; \$_ } split //, $3;
    my $d;
    for $d (map { s/\s+//g; \$_ } split //, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^#if\$s+defined\$i\{$NEED\_\{$w+\}(?:_GLOBAL)?\$\};
}

for (values %depends) {
    my %s;
    $$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $smatch = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$Q$opt{'api-info'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ $smatch;
        print "$\n== $f ==\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base:\n";
$info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo:\n";
    print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
    print "Depends on: ", join(’,’, @{$depends{$f}}), "\n" if exists $depends{$f};
    print "\n\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching \'{api-info}'.\n";
print "\n";
exit 0;
if (exists $opt{‘list-provided’}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'  if exists $depends{$f};
        push @flags, 'hint'    if exists $hints{$f};
        push @flags, 'warning' if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
        }
        else { warn "$_ is not a file.\n" }
    }
}
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");

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my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {

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if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};

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my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func} {varargs}) {
        unless ($API{$func} {nothxarg}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_\?)(?!\^s)\*\}){'aTHX' . $2 . ge);}
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
        else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*(?!aTHX_\?)(?!\^s)\*\}){'$func$1(}g);
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*(?!aTHX_\?)(?!\^s)\*\}){'$func$1(}g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        }
        else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func} {todo}), ", even with 'sppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {

$message = "No need to define NEED_$func if $func is never used";
}
elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_S{$func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files @ [$global{needs}[$func]] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/)+$1$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp := qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+/)+$1$pp/m)
    || ($c =~ s/^((?=$HS*#$HS*include.*$Q$ppport\E)/$pp/m)
    || ($c =~ s/^((?=$HS*#$HS*include.*XSUB.*\s*?)+/;$1$pp/m)
    || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : "
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : "
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");
if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'";
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'";
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(\*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(\*STDOUT, $filename, $c);
        }
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
} else {
    info("Looks good");
}
close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_; return $@ eq ""}

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
          --- $file
          +++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
my $diff = ''; local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/\Q$tmp\E/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }
    unlink $tmp;
} else {
    error("Cannot open 'tmp' for writing: $!");
}
return undef;

sub rec_depend
{
    my($func, $seen) = @_; return () unless exists $depends{$func};
    $seen = {%{$seen||{}}}; return () if $seen->{$func}++;
    my %s;
grep !{$s{$_}++}, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    @$depends{$func};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.(\d+).\.(\d+)$/) {
        return ($1, $2, $3);
    } elsif ($ver !~ ^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver'";
    }

    return ($1, $2, $3);
}
$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\((\d+)+(\d\{3\})(\d\{3\})\)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version "$ver"n";
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\((\d+)+(\d\{3\})(\d\{3\})\)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version "$ver"n";
        }
        $s /= 10;
    }
    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
    print @_, "n";
}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_ , "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} &amp; !given_warnings{$func}++)
{
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;}
if ($opt{hints} &amp; &amp; exists $hints{$func} &amp; &amp; !given_hints{$func}++)
{
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
}
$rv;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /=head\d$HS+SYNOPSIS\s*(.*)\s*/ms;
my %M = ( 'I' => '*' );
$usage =~ s/\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]*)>/s\$^1\$/g;
print <<ENDUSAGE;}
Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };

    my($copy) = $self =~ /\^=head\d+\s+COPYRIGHT\^*(.*)\^w+\ms/;
    $copy =~ s/$^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^\^^
$c =~ s!\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!"
print OUT "$pl$c
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-
archive-PySqlmf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxDSVg/PathTools-3.74/ppport.h

No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file
specifications (usually called "file names", but not to be confused with the
contents of a file, or Perl's file handles), such as concatenating several
directory and file names into a single path, or determining whether a path
is rooted. It is based on code directly taken from MakeMaker 5.17, code
written by Andreas KE<ouml>nig, Andy Dougherty, Charles Bailey, Ilya
Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of
OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a', 'b');

but rather as class methods:

File::Spec->catfile('a', 'b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath

X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$cpath = File::Spec->canonpath( $path );

Note that this does *not* collapse F<x../y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir

X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 16156
$path = File::Spec->catdir( @directories );

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

$path = File::Spec->catfile( @directories, $filename );

=item curdir
X<curdir>

Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}> (unless taint is on) and F</tmp>.

$tmpdir = File::Spec->tmpdir();

=item updir
X<updir>

Returns a string representation of the parent directory.

$updir = File::Spec->updir();
Given a list of files in a directory (such as from C<readdir()>)
strip out C<.> and C<..>.

B<SECURITY NOTE:> This does NOT filter paths containing C<..>, like
C<../../../../etc/passwd>, only literal matches to C<.> and C<..>.

    @paths = File::Spec->no_upwards( readdir $dirhandle );

==item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic
case is not or is significant when comparing file specifications.
Cygwin and Win32 accept an optional drive argument.

    $is_case_tolerant = File::Spec->case_tolerant();

==item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

    $is_absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or
Mac OS (Classic).  It does consult the working environment for VMS
(see L<File::Spec::VMS/file_name_is_absolute>).

==item path

X<path>

Takes no argument.  Returns the environment variable C<PATH> (or the local
platform's equivalent) as a list.

    @PATH = File::Spec->path();

==item join

X<join, path>

join is the same as catfile.

==item splitpath

X<splitpath> X<split, path>

Splits a path in to volume, directory, and filename portions. On systems
with no concept of volume, returns " for volume.
($volume,$directories,$file) =
    File::Spec->splitpath( $path );
($volume,$directories,$file) =
    File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories,
asumes that the last file is a path unless C<$no_file> is true or a
trailing separator or F</.> or F</..> is present. On Unix, this means that C<$no_file>
true makes this return (",", $path,"").

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to
(usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

    @dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems
that have the concept of a volume or that have path syntax that differentiates
files from directories.

Unlike just splitting the directories on the separator, empty
directory names (C"" ) can be returned, because these are significant
on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under
Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is
inserted if need be. On other OSes, C<$volume> is significant.

    $full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path
from the base path to the destination path:

    $rel_path = File::Spec->abs2rel( $path ) ;
    $rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or "", then L<Cwd::cwd()> is used. If C<$base> is
relative, then it is converted to absolute form using
L</rel2abs()>. This means that it is taken to be relative to
L</Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L</Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute=path> X<relative=path>

Converts a relative path to an absolute path.

$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or ", then L</Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L</Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see L<File::Spec::Unix>,
L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or
L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>,
L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>,
L<ExtUtils::MakeMaker>

=head1 AUTHOR

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VMS support by Charles Bailey C<< bailey@newman.upenn.edu >>.
OS/2 support by Ilya Zakharevich C<< ilya@math ohio-state.edu >>.
Mac support by Paul Schinder C<< schinder@pobox.com >>, and
Thomas Wegner C<< wegner_thomas@yahoo.com >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< shigio@tamacom.com >>,
modified by Barrie Slaymaker C<< barries@slaysys.com >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-
archive-PySqlIm99/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec.pm
No license file was found, but licenses were detected in source scan.
---
abstract: 'Tools for working with directory and file names'
author:
  - 'Perl 5 Porters'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Basename: '0'
  Scalar::Util: '0'
  Test::More: '0.88'
resources:
  bugtracker: https://rt.perl.org/rt3/
  homepage: http://dev.perl.org/
  repository: git://perl5.git.perl.org/perl.git
  version: '3.74'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/META.yml
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=head1 SEE ALSO
File::Spec

=cut

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* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Unix.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

    $ENV{TMPDIR}
    $ENV{TEMP}
    $ENV{TMP}
    /tmp
    /

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Mac.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION
This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in all code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

=item fastcwd

my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.
=item fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();
my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=over 4

=item abs_path

my $abs_path = abs_path($file);  

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and "..") are resolved to return the canonical pathname, just like realpath(3). On error returns C<undef>, with C<$!> set to indicate the error.

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);
A more dangerous, but potentially faster version of abs_path.

=back
=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

    use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems (’/’ on Unix, ’:’ on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.

=back

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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=head1 SEE ALSO

L<File::chdir>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqlIn9f9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.pm
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=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

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* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqlIn9f9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Win32.pm
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=head1 SEE ALSO

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implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at

=cut

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* /opt/ws_local/PERMITS_SQL/1009548107_1591379771.91/0/perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/VMS.pm
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=pod

o.flebbe@gmx.de

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1.1594 jboss-as-clustering-jgroups
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the version number 2.1.]

Preamble

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1596 linux-firmware 39.31.5.1-104.el8_5.1
1.1596.1 Available under license :

**********
* WHENCE *
**********

This file attempts to document the origin and licensing information, 
if known, for each piece of firmware distributed for use with the Linux 
kernel.

------------------------------------------------------------

Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd
Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

Licence: Redistributable. See LICENCE.cypress for details.

------------------------------------------------------------

Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.
File: atmsar11.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

Madge Ambassador ATM Adapter microcode.
Copyright (C) 1995-1999 Madge Networks Ltd.

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--------------------------------------------------------------------------

Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.

--------------------------------------------------------------------------

Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see specs on the dsp."

--------------------------------------------------------------------------

Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

Licence: Unknown
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------------------------------------------------------------------------

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

------------------------------------------------------------------------

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details

------------------------------------------------------------------------

Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

Original licence info:

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* expressed or implied about its fitness for any purpose.

------------------------------------------------------------------------

Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:
/*
 * This firmware is for the Emagic EMI 2|6 Audio Interface
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic
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*
* This firmware may not be modified and may only be used with the
* Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
* any driver which includes this firmware, in whole or in part,
* requires the inclusion of this statement.
*/

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2004 Texas Instruments
Found in hex form in kernel source.

-------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
         per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.


-------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

-------------------------------------------------------------

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
         Copyright (C) 2000-2002  ConnectTech Inc

Debug loader claims the following behaviour:
Port 1 LED flashes when the vend_ax program is running
Port 2 LED flashes when any SETUP command arrives
Port 3 LED flashes when any valid VENDOR request occurs
Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

-------------------------------------------------------------

Driver: ip2 -- Computone IntelliPort Plus serial device
File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabususb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabususb/firmware.fw
File: dabususb/bitstream.bin

Licence: Distributable

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* code retain the above copyright notice and this comment without
* modification.

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.
Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:
//*******************************************************************************
//* Edgeport/4 Binary Image
//* Generated by HEX2C v1.06
//* Copyright (C) 1998 Inside Out Networks, All rights reserved.
//********************************************************************************

Found in hex form in kernel source.

-----------------------------------------------

Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:
//*******************************************************************************
//* Edgeport Binary Image (for TI based products)
//* Generated by TIBin2C v2.00 (watchport)
//* Copyright (C) 2001 Inside Out Networks, All rights reserved.
//********************************************************************************

Found in hex form in kernel source.

-----------------------------------------------

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from
http://www.zdomain.com/a56.html

-----------------------------------------------
Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
/*
 * Copyright (c) 1994 Creative Technology Ltd.
 * Microcode files for SB16 Advanced Signal Processor
 */

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details
Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys

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This firmware may not be modified.

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgsdownloadB.sys

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Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

------------------------------------------------------------------------

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

Licence:
*Copyright (c) 2007-2009 NetLogic Microsystems, Inc.
*
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*notice is accompanying it.

Found in hex form in kernel source.

------------------------------------------------------------------------

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.25.6.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.25.6.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.25.6.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.25.6.0.bin
File: cxgb4/t6fw-1.25.6.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.25.6.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

--------------------------------------------------------------------------

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

--------------------------------------------------------------------------

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at http://alteon.shareable.org/

--------------------------------------------------------------------------

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

Licence:
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*Copyright (C) 2000-2013 Broadcom Corporation.
*
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*notice is accompanying it.

Found in hex form in kernel source.

--------------------------------------------------------------------------
Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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-------------------------------------------------------------------------

Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from http://linuxwimax.org/Download

-------------------------------------------------------------------------

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

---------------------------------------------------------------------------------------------------------------------

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

---------------------------------------------------------------------------------------------------------------------

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9
Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell's "Extranet" with permission. 8366 images contributed directly by Marvell.

--------------------------------------------------------------------------------

Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183
File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179
File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195
Licence: Redistributable. See LICENCE.NXP for details. Originates from https://github.com/NXP/mwifiex-firmware.git

Driver: iwlwifi - Intel Wireless Wifi
File: iwlwifi-3945-2.ucode
Version: 15.32.2.9
File: iwlwifi-4965-2.ucode
Version: 228.61.2.24
File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)
File: iwlwifi-5000-2.ucode
Version: 8.24.2.12
File: iwlwifi-5000-5.ucode
Version: 8.83.5.1
File: iwlwifi-5150-2.ucode
Version: 8.24.2.2
File: iwlwifi-1000-3.ucode
Version: 128.50.3.1
File: iwlwifi-1000-5.ucode
Version: 39.31.5.1
File: iwlwifi-6000-4.ucode
Version: 9.221.4.1
File: iwlwifi-6050-4.ucode
Version: 9.201.4.1
File: iwlwifi-6050-5.ucode
Version: 41.28.5.1
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<td>Version: 39.31.5.1</td>
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<td>Version: 18.168.6.1</td>
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<td>Version: 23.15.10.0</td>
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<td>File: iwlwifi-7260-16.ucode</td>
<td>Version: 16.242414.0</td>
</tr>
</tbody>
</table>
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Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version: 16.242414.0

File: iwlwifi-3160-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265-8.ucode
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version: 16.242414.0

File: iwlwifi-7265-17.ucode
Version: 17.bfb58538.0
Link: iwlwifi-7265D-10.ucode -> iwlwifi-7265-10.ucode

File: iwlwifi-7265D-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode
Version: 16.242414.0

File: iwlwifi-7265D-17.ucode
Version: 17.352738.0

File: iwlwifi-7265D-21.ucode
Version: 21.302800.0

File: iwlwifi-7265D-22.ucode
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode
Version: 29.f2390aa8.0

File: iwlwifi-3168-21.ucode
Version: 21.302800.0

File: iwlwifi-3168-22.ucode
Version: 22.391740.0

File: iwlwifi-3168-27.ucode
Version: 27.541033.0

File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0

File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode
Version: 21.302800.0
File: iwlwifi-8000C-22.ucode
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-8265-21.ucode
Version: 21.302800.0

File: iwlwifi-8265-22.ucode
Version: 22.391740.0

File: iwlwifi-8265-27.ucode
Version: 27.541033.0

File: iwlwifi-8265-31.ucode
Version: 31.560484.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfd8.0

File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0
File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b1.1.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0
File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-hr-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-Qu-c0-jf-b0-62.uncode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-hr-b0-62.uncode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-jf-b0-62.uncode
Version: 62.49eeb572.0

File: iwlwifi-ty-a0-gf-a0-62.uncode
Version: 62.49eeb572.0

File: iwlwifi-cc-a0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-hr-b0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-jf-b0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-jf-b0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.uncode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0.pnvm
Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

--------------------------------------------------------------------------

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311ffe49c5a180b58a3917912d  
Link: intel/ipu3-fw.bin -> irci irci ecr-master_20161208_0213_20170112_1500.bin

Licence: Redistributable. See LICENSE.ipu3_firmware for details

Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

Licence: Redistributable.

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

/*
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 */

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*/

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin
/*
* The firmware this driver downloads into the tokenring card is a
* separate program and is not GPL'd source code, even though the Linux
* side driver and the routine that loads this data into the card are.
*
* This firmware is licensed to you strictly for use in conjunction
* with the use of 3Com 3C359 TokenRing adapters. There is no
* warranty expressed or implied about its fitness for any purpose.
*/
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
*
* Notes:
* - Loaded from xl_init upon adapter initialization.
*
* Available from 3Com as part of their standard 3C359 driver.
*/

Found in hex form in kernel source.

--------------------------------------------------------------------------------

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

--------------------------------------------------------------------------------

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL
Originally developed by the pcmcia-cs project
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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA
File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

-------------------------------------------------------------------------

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-digit.fw

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-------------------------------------------------------------------------

Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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-------------------------------------------------------------------------

Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw
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Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

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Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

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Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Found in hex form in kernel source.
Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.
ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
Copyright (c) 1998-2002 by Paul Davis <pbd@op.net>

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details
Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html
Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details


Driver: rt2800sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

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Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36
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--------------------------------------------------------------------------

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

--------------------------------------------------------------------------

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

--------------------------------------------------------------------------

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

--------------------------------------------------------------------------

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7
Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver
File: dvb-usb-dib0700-1.20.fw
Version: 1.20
Licence: Redistributable. See LICENCE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011
File: ath3k-1.fw
Version: 1.0
Fix EEPROM radio table issue and change PID to 3005
Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: mga - Matrox G200/G400/G550
File: matrox/g200_warp.fw
File: matrox/g400_warp.fw
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Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

--------------------------------------------------------------------------
Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEGAR_me.bin
File: radeon/CEGAR_pfp.bin
File: radeon/CEGAR_rlc.bin
File: radeon/CEGAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_k_smc.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_mec.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/tahiti_uvd.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/pitcairn_uvd.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
File: amdgpu/verde_me.bin
File: amdgpu/verde_pfp.bin
File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/verde_uvd.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
File: amdgpu/oland_mc.bin
File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/oland_smc.bin
File: amdgpu/oland_uvd.bin
File: amdgpu/si58_mc.bin
File: amdgpu/banks_k_2_smc.bin
File: amdgpu/bonaire_ce.bin
File: amdgpu/bonaire_k_smc.bin
File: amdgpu/bonaire_mc.bin
File: amdgpu/bonaire_me.bin
File: amdgpu/bonaire_mec.bin
File: amdgpu/bonaire_pfp.bin
File: amdgpu/bonaire_rlc.bin
File: amdgpu/bonaire_sdma.bin
File: amdgpu/bonaire_sdma1.bin
File: amdgpu/bonaire_smc.bin
File: amdgpu/bonaire_uvd.bin
File: amdgpu/bonaire_vce.bin
File: amdgpu/hawaii_ce.bin
File: amdgpu/hawaii_k_smc.bin
File: amdgpu/hawaii_mc.bin
File: amdgpu/hawaii_me.bin
File: amdgpu/hawaii_mec.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_mec_2.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_pfp_2.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_ce_2.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_me_2.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_mec_2.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_pfp_2.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
File: amdgpu/polaris11_smc.bin
File: amdgpu/polaris11_k_smc.bin
File: amdgpu/polaris11_k2_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin
File: amdgpu/polaris12_ce.bin
File: amdgpu/polaris12_ce_2.bin
File: amdgpu/polaris12_mc.bin
File: amdgpu/polaris12_k_mc.bin
File: amdgpu/polaris12_32_mc.bin
File: amdgpu/polaris12_me.bin
File: amdgpu/polaris12_me_2.bin
File: amdgpu/polaris12_mec.bin
File: amdgpu/polaris12_mec2.bin
File: amdgpu/polaris12_mec_2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_pfp.bin
File: amdgpu/polaris12_pfp_2.bin
File: amdgpu/raven2_ta.bin
File: amdgpu/navi10_asd.bin
File: amdgpu/navi10_ce.bin
File: amdgpu/navi10_gpu_info.bin
File: amdgpu/navi10_me.bin
File: amdgpu/navi10_mec.bin
File: amdgpu/navi10_mec2.bin
File: amdgpu/navi10_pfp.bin
File: amdgpu/navi10_rlc.bin
File: amdgpu/navi10_sdma.bin
File: amdgpu/navi10_sdma1.bin
File: amdgpu/navi10_smc.bin
File: amdgpu/navi10_sos.bin
File: amdgpu/navi10_vcn.bin
File: amdgpu/navi10_ta.bin
File: amdgpu/navi14_asd.bin
File: amdgpu/navi14_ce.bin
File: amdgpu/navi14_ce_wks.bin
File: amdgpu/navi14_gpu_info.bin
File: amdgpu/navi14_me.bin
File: amdgpu/navi14_me_wks.bin
File: amdgpu/navi14_mec.bin
File: amdgpu/navi14_mec_wks.bin
File: amdgpu/navi14_mec2.bin
File: amdgpu/navi14_mec2_wks.bin
File: amdgpu/navi14_pfp.bin
File: amdgpu/navi14_pfp_wks.bin
File: amdgpu/navi14_rlc.bin
File: amdgpu/navi14_sdma.bin
File: amdgpu/navi14_sdma1.bin
File: amdgpu/navi14_smc.bin
File: amdgpu/navi14_sos.bin
File: amdgpu/navi14_vcn.bin
File: amdgpu/navi14_ta.bin
File: amdgpu/navi12_asd.bin
File: amdgpu/navi12_ce.bin
File: amdgpu/navi12_dmcu.bin
File: amdgpu/navi12_gpu_info.bin
File: amdgpu/navi12_me.bin
File: amdgpu/navi12_mec.bin
File: amdgpu/navi12_mec2.bin
File: amdgpu/navi12_pfp.bin
File: amdgpu/navi12_rlc.bin
File: amdgpu/navi12_sdma.bin
File: amdgpu/navi12_sdma1.bin
File: amdgpu/navi12_smc.bin
File: amdgpu/navi12_sos.bin
File: amdgpu/navi12_vcn.bin
File: amdgpu/renoir_ce.bin
File: amdgpu/renoir_pfp.bin
File: amdgpu/renoir_rlc.bin
File: amdgpu/renoir_sdma.bin
File: amdgpu/renoir_vcn.bin
File: amdgpu/renoir_dmcub.bin
File: amdgpu/renoir_ta.bin
File: amdgpu/sienna_cichlid_ce.bin
File: amdgpu/sienna_cichlid_dmcub.bin
File: amdgpu/sienna_cichlid_me.bin
File: amdgpu/sienna_cichlid_mec.bin
File: amdgpu/sienna_cichlid_mec2.bin
File: amdgpu/sienna_cichlid_pfp.bin
File: amdgpu/sienna_cichlid_rlc.bin
File: amdgpu/sienna_cichlid_sdma.bin
File: amdgpu/sienna_cichlid_smc.bin
File: amdgpu/sienna_cichlid_sos.bin
File: amdgpu/sienna_cichlid_ta.bin
File: amdgpu/green_sardine_asd.bin
File: amdgpu/green_sardine_ce.bin
File: amdgpu/green_sardine_dmcub.bin
File: amdgpu/green_sardine_me.bin
File: amdgpu/green_sardine_mec2.bin
File: amdgpu/green_sardine_mec.bin
File: amdgpu/green_sardine_pfp.bin
File: amdgpu/green_sardine_rlc.bin
File: amdgpu/green_sardine_sdma.bin
File: amdgpu/green_sardine_ta.bin
File: amdgpu/green_sardine_vcn.bin
File: amdgpu/navy_flounder_ce.bin
File: amdgpu/navy_flounder_dmcub.bin
File: amdgpu/navy_flounder_me.bin
File: amdgpu/navy_flounder_mec.bin
File: amdgpu/navy_flounder_mec2.bin
File: amdgpu/navy_flounder_pfp.bin
File: amdgpu/navy_flounder_rlc.bin
File: amdgpu/navy_flounder_sdma.bin
File: amdgpu/navy_flounder_smc.bin
File: amdgpu/navy_flounder_sos.bin
File: amdgpu/navy_flounder_ta.bin
File: amdgpu/navy_flounder_vcn.bin
File: amdgpu/arcturus_asd.bin
File: amdgpu/arcturus_gpu_info.bin
File: amdgpu/arcturus_mec2.bin
File: amdgpu/arcturus_mec.bin
File: amdgpu/arcturus_rlc.bin
File: amdgpu/arcturus_sdma.bin
File: amdgpu/arcturus_smc.bin
File: amdgpu/arcturus_sos.bin
File: amdgpu/arcturus_ta.bin
File: amdgpu/arcturus_vcn.bin
File: amdgpu/dimgrey_cavefish_ce.bin
File: amdgpu/dimgrey_cavefish_dmcub.bin
File: amdgpu/dimgrey_cavefish_me.bin
File: amdgpu/dimgrey_cavefish_mec.bin
File: amdgpu/dimgrey_cavefish_mec2.bin
File: amdgpu/dimgrey_cavefish_pfp.bin
File: amdgpu/dimgrey_cavefish_rlc.bin
File: amdgpu/dimgrey_cavefish_sdma.bin
File: amdgpu/dimgrey_cavefish_smc.bin
File: amdgpu/dimgrey_cavefish_sos.bin
File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin

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------------------------------------------------------------------

Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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------------------------------------------------------------------

Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

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-----------------------------------------------------------------------------------------------

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

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Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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* SOFTWARE.

Found in hex form in kernel source.

---------------------------------------------

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details
Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeiWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/CMVep.FR.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

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Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350e2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac4340-sdio.bin
Link: brcm/brcmfmac4340-sdio.bin -> ../cypress/cyfmac4340-sdio.bin
File: cypress/cyfmac4340-sdio.clm_blob
Link: brcm/brcmfmac4340-sdio.clm_blob -> ../cypress/cyfmac4340-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
File: cypress/cyfmac4356-sdio.bin
Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfmac4356-sdio.bin
File: cypress/cyfmac4356-sdio.clm_blob
Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfmac4356-sdio.clm_blob
File: cypress/cyfmac43570-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
File: cypress/cyfmac43570-pcie.clm_blob
Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfmac43570-pcie.clm_blob
File: cypress/cyfmac43573-sdio.bin
Link: brcm/brcmfmac43573-sdio.bin -> ../cypress/cyfmac43573-sdio.bin
File: cypress/cyfmac4373-sdio.clm_blob
Link: brcm/brcmfmac4373-sdio.clm_blob -> ../cypress/cyfmac4373-sdio.clm_blob
File: cypress/cyfmac54591-pcie.bin
Link: brcm/brcmfmac54591-pcie.bin -> ../cypress/cyfmac54591-pcie.bin
File: cypress/cyfmac54591-pcie.clm_blob
Link: brcm/brcmfmac54591-pcie.clm_blob -> ../cypress/cyfmac54591-pcie.clm_blob

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File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac4330-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac4330-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac4330-sdio.predia-basic.txt"
File: "brcm/brcmfmac4332-sdio.cubietech,cubietruck.txt"
Link: brcm/brcmfmac4332-sdio.lemaker,bananapro.txt -> brcmfmac4332-sdio.cubietech,cubietruck.txt
File: "brcm/brcmfmac4340-a0-sdio.ilife-S806.txt"
File: "brcm/brcmfmac4340-a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac4340-a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt -> brcmfmac43430-sdio.AP6212.txt

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 16239
 LICENCE: GPLv2. See GPL-2 for details.

--------------------------------------------------------------------------

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
Copyright 2010 STMicroelectronics

--------------------------------------------------------------------------

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

--------------------------------------------------------------------------

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7
File: ti-connectivity/wl1251-nvs.bin
Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

-----------------------------------------------

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:
- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:


If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

-------------------------------------------------------------------------

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79
Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

--------------------------------------------------------------------------

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

--------------------------------------------------------------------------

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

Telegent System grants permission to use and redistribute these firmware files for use with devices containing the chip tlg2300, but not as a part of the Linux kernel or in any other form which would require these files themselves to be covered by the terms of the GNU General Public License. These firmware files are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

--------------------------------------------------------------------------

Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's r8l8712_8188_8191_8192SU_usb_linux_v7_0.20100831
      Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404
Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin
Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver

All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c
Relevant variables (CONFIG_BT_COEXISTENCE not set):
- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFwUMCACutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFwTSMCImgArray

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin
Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor’s realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver rtl8723A_WIFI_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE
Info: Taken from Realtek version rtl_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821ae CW_de29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

--------------------------------------------------------------------------

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE
Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported
by rtw88 because the hardware arch is similar.

-------------------------------------------------------------------------

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A
File: rtw89/rtw8852a_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rt8192ee - Realtek 802.11n WLAN driver for RTL8192EE
Info: Initial version taken from Realtek version
       rtl_92ee_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
       Updated Jan. 14, 2015 with file added by Realtek to
       http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rt8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rt8723bs - Realtek 802.11n WLAN driver for RTL8723BS
Info: Firmware files extracted from data statements in Realtek driver
       v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
File: rtlwifi/rtl8723bs_nic.bin
File: rtlwifi/rtl8723bs_ap_wowlan.bin
File: rtlwifi/rtl8723bs_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/r8168d-1.fw
File: rtl_nic/r8168d-2.fw
File: rtl_nic/r8105e-1.fw
File: rtl_nic/r8168e-1.fw
File: rtl_nic/r8168e-2.fw

File: rtl_nic/r8168e-3.fw
Version: 0.0.4

File: rtl_nic/r8168f-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:
* Copyright 2011-2013, Realtek Semiconductor Corporation
* Permission is hereby granted for the distribution of this firmware
* data in hexadecimal or equivalent format, provided this copyright
* notice is accompanying it.

Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw


Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

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Driver: Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4-1.0-00047
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN.RM.4.4.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin
Version: WLAN.RMH.4.4.1-00077
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2-4-1.0-00047
Licence: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9884/hw1.0/board-2.bin
File: ath10k/QCA9884/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9884/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Link: qcom/sdm845/wlanmdsp.mbn -> ../ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
Licence: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

--------------------------------------------------------------------------

Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 16253
Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
License: Redistributable. See LICENCE.myri10ge_firmware for details.

------------------------------------------------------------------------

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

------------------------------------------------------------------------

Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_acLLowPri.pst
File: ar3k/30101coex/PS_ASIC_acLHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

------------------------------------------------------------------------

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

Licence: Redistributable.

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

Licence: Redistributable. See LICENCE.ene_firmware for details.

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
Version: BT_StonePeak_D1_REL_66_1167
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0522
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL0306
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0306
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-0-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-18-16-1.sfi
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-2.ddc
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-0-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-0-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-20-0-3.sfi
Version: BT_CyclonePeak_A0_REL25791
File:intel/ibt-20-0-3.dcc
Version: BT_CyclonePeak_A0_REL25791
File:intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL25791
File:intel/ibt-20-1-3.dcc
Version: BT_CyclonePeak_A0_REL25791
File:intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL25791
File:intel/ibt-20-1-4.dcc
Version: BT_CyclonePeak_A0_REL25791
File:intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL25791
File:intel/ibt-19-0-0.dcc
Version: BT_Quasar_REL25791
File:intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL25791
File:intel/ibt-19-0-1.dcc
Version: BT_Quasar_REL25791
File:intel/ibt-19-0-2.sfi
Version: BT_Quasar_REL25791
File:intel/ibt-19-0-2.dcc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-16-4.dcc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-1.dcc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-32-0.dcc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-1.dcc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-19-240-4.dcc
Version: BT_HarrisonPeak_REL25791
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL23884
Licence: Redistributable. See LICENCE.ibt_firmware for details.

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin
-------------------------------------------------------------

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

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Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

Licence: Redistributable.

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-starrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

-------------------------------------------------------------

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2020-11-20
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2020-11-20

License: Redistributable. See LICENSE.amd-sev for details

-------------------------------------------------------------

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2019-12-18

License: Redistributable. See LICENSE.amd-ucode for details

-------------------------------------------------------------

Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

-------------------------------------------------------------
Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

--------------------------------------------------------------------------

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

License:
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(Please note that the actual device firmware is separately licensed)

--------------------------------------------------------------------------

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

Driver: rsi – Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1
File: rsi/rs9113_ap_bt_dual_mode.rps  
Version: 1.6.1

File: rsi/rs9116_wlan.rps  
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps  
Version: 1.0.5b

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Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem  
File: r8a779x_usb3_v2.dlmem  
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

--------------------------------------------------------------------------

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex  
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

--------------------------------------------------------------------------
Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> dsp_fw_release_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v3366.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp_fw_cnl.bin -> dsp_fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin
Version: v55.15

File: nvidia/tegra194/xusb.bin
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin

File: nvidia/tegra186/vic04_ucode.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucode.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details
Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
File: atusb/atusb-0.3.dfu
Version: 0.3
File: atusb/atusb-0.3.bin
Version: 0.3
Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_usb_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0110.bin
Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbfw21.tlv
File: qca/crnv21.bin
File: qca/crbfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin
Version: v1.7.2

File: liquidio/lio_210nv_nic.bin
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details
Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake
File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake
File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_huc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake
File: tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: tgl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Tigerlake

File: tgl_huc_7.0.3.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: tgl_huc_7.0.12.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: tgl_huc_7.5.0.bin
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: rkl_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: dg1_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for DG1

File: dg1_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for DG1

File: dg1_huc_7.7.1.bin
Version: Huc API/APB ver 7 release 1 for DG1
File: i915/adls_dmc_ver2_01.bin
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P
License: Redistributable. See LICENSE.i915 for details

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../../../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../../../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../../../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../../../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../../../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../../../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../../../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin
File: nvidia/gp10b/gr/sw_nonctx.bin
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp108/gr/fecs_bl.bin
File: nvidia/gp108/gr/fecs_data.bin
File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
File: nvidia/gp108/gr/gpccs_bl.bin
File: nvidia/gp108/gr/gpccs_data.bin
File: nvidia/gp108/gr/gpccs_inst.bin
File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
File: nvidia/gv100/acr/ucode_unload.bin
File: nvidia/gv100/gr/fecs_bl.bin
File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin
File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/unload_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
File: nvidia/tu102/gr/fecs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/unload_unload.bin -> ../tu102/acr/unload_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../tu102/sec2/desc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin - ../../tu116/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.4

License: Redistributable. See LICENSE.atmel for details

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1.dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x1013001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

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Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENCE.ti-keystone for details.

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Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

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Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

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Driver: mtk scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

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Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs
File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs
File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs
File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs
File: mediatek/mt7622_n9.bin
Version: 20200131
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7915e - MediaTek MT7915e Wireless MACs

File: mediatek/mt7915_wm.bin
Version: 20201105
File: mediatek/mt7915_wa.bin
Version: 20201105
File: mediatek/mt7915_rom_patch.bin
Version: 20201105

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2 hdr.bin
Version: 20210612122717a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20210612122753

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt7921 - MediaTek MT7921 bluetooth chipset
File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20210223142901

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw -> nic/nic_AMDA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw -> nic/nic_AMDA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_2x40.nffw -> nic/nic_AMDA0081-0001_2x40.nffw
Link: netronome/nic_AMDA0095-0001_8x10.nffw -> nic/nic_AMDA0095-0001_8x10.nffw
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw
Link: netronome/nic_AMDA0078-0011_2x40.nffw -> nic/nic_AMDA0078-0011_2x40.nffw

File: netronome/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic_AMDA0095-0001_8x10.nffw
File: netronome/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic_AMDA0078-0011_2x40.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw


File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

Version: v2.0.6.124
Licence: Redistributable. See LICENCE.Netronome for details

Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

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Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt
File: qcom/venus-5.4/venus.b00
File: qcom/venus-5.4/venus.b01
File: qcom/venus-5.4/venus.b02
File: qcom/venus-5.4/venus.b03
File: qcom/venus-5.4/venus.b04
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt
File: qcom/vpu-1.0/venus.b00
File: qcom/vpu-1.0/venus.b01
File: qcom/vpu-1.0/venus.b02
File: qcom/vpu-1.0/venus.b03
File: qcom/vpu-1.0/venus.b04
File: qcom/vpu-1.0/venus.b05
File: qcom/vpu-1.0/venus.b06
File: qcom/vpu-1.0/venus.b07
File: qcom/vpu-1.0/venus.b08
File: qcom/vpu-1.0/venus.b09
File: qcom/vpu-1.0/venus.b10
File: qcom/vpu-1.0/venus.b19
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt
File: qcom/vpu-2.0/venus.b00
File: qcom/vpu-2.0/venus.b01
File: qcom/vpu-2.0/venus.b02
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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Driver: imx-sdma - support for i.MX SDMA driver
File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

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Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw

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Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn
File: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
File: qcom/sdm845/cdspr.jsn
File: qcom/sm8250/adsp.mbn
File: qcom/sm8250/adspr.jsn
File: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
File: qcom/sm8250/cdspr.jsn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
https://github.com/andersson/pil-squasher

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
https://github.com/andersson/pil-squasher

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem.mbn
File: qcom/sdm845/modemuw.jsn

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http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-29.2000.2308.mfa2
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POSSIBILITY OF SUCH DAMAGE.

Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

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Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_1s1088a.itb
File: dpaa2/mc/mc_10.10.0_1s2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
File: dpaa2/mc/mc_10.14.3_1s1088a.itb
File: dpaa2/mc/mc_10.14.3_1s2088a.itb
File: dpaa2/mc/mc_10.14.3_lx2160a.itb
File: dpaa2/mc/mc_10.16.2_1s1088a.itb
File: dpaa2/mc/mc_10.16.2_1s2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb
File: dpaa2/mc/mc_10.18.0_1s1088a.itb
File: dpaa2/mc/mc_10.18.0_1s2088a.itb
File: dpaa2/mc/mc_10.18.0_lx2160a.itb

Licence: Redistributable. See LICENSE.nxp_mc_firmware for details

Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

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Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sm1_hevc_mmu.bin
File: meson/vdec/sm1_vp9_mmu.bin

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Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.16.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.16.0.pkg

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File: intel/ice/ddp-comms/ice_comms-1.3.20.0.pkg

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Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin
File: inside-secure/eip197_minifw/ifpp.bin

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Driver: prestera - Marvell driver for Prestera family ASIC devices

File: mrvl/prestera/mvsw_prestera_fw-v2.0.img
File: mrvl/prestera/mvsw_prestera_fw-v3.0.img

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Driver: lt9611uxc - Lontium DSI to HDMI bridge

File: lt9611uxc_fw.bin

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------------------------------------------------

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: silabs/wfm_wf200_C0.sec
Version: 3.12.1

Licence: Redistributable. See silabs/LICENS.E.wf200 for details.
Originates from https://github.com/SiliconLabs/wfx-firmware
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1.1597 ima-evm-utils 1.3.2-12.el8

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.

Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 2.1, February 1999

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can use it too, but we suggest you first think carefully about whether
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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/**
* Create a new <code>Acl</code> instance from this <code>Acl</code> with
* the given permission revoked from the given principal. Other permissions
* of the principal are not affected.
* <p>
* Note, that it is not valid to revoke a permission from a specific
* principal if that permission is granted globally to all principals.
* 
* @param principal The entity from which permissions should be revoked, or
* "*" to revoke permissions from all principals.
* @param permissions The permissions to be revoked. The parameter can be a
* logical <code>or</code> of more permission constants defined in
* this class.
* @return a new <code>Acl</code> instance
* @throws IllegalArgumentException if <code>principal</code> is not a valid principal name, if <code>permissions</code> is not a
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 */
/**
 * Service for administering configuration data.
 *
 * <p>
 * The main purpose of this interface is to store bundle configuration data
 * persistently. This information is represented in <code>Configuration</code>
 * objects. The actual configuration data is a <code>Dictionary</code> of
 * properties inside a <code>Configuration</code> object.
 *
 * <p>
 * There are two principally different ways to manage configurations. First
 * there is the concept of a Managed Service, where configuration data is
 * uniquely associated with an object registered with the service registry.
 *
 * <p>
 * Next, there is the concept of a factory where the Configuration Admin service
 * will maintain 0 or more <code>Configuration</code> objects for a Managed
 * Service Factory that is registered with the Framework.
 *
 * <p>
 * The first concept is intended for configuration data about "things/services"
 * whose existence is defined externally, e.g. a specific printer. Factories are
 * intended for "things/services" that can be created any number of times, e.g.
 * a configuration for a DHCP server for different networks.
 *
 * <p>
* Bundles that require configuration should register a Managed Service or a
  Managed Service Factory in the service registry. A registration property
  named `<code>service.pid</code>` (persistent identifier or PID) must be used to
  identify this Managed Service or Managed Service Factory to the Configuration
  Admin service.

* <p>
  When the ConfigurationAdmin detects the registration of a Managed Service, it
  checks its persistent storage for a configuration object whose
  `<code>service.pid</code>` property matches the PID service property (  
  `<code>service.pid</code>` ) of the Managed Service. If found, it calls
  `<code>ManagedService#updated</code>` method with the new properties. The
  implementation of a Configuration Admin service must run these call-backs
  asynchronously to allow proper synchronization.

* <p>
  When the Configuration Admin service detects a Managed Service Factory
  registration, it checks its storage for configuration objects whose
  `<code>service.factoryPid</code>` property matches the PID service property of
  the Managed Service Factory. For each such `<code>Configuration</code>`
  objects, it calls the `<code>ManagedServiceFactory#updated</code>` method
  asynchronously with the new properties. The calls to the `<code>updated</code>`
  method of a `<code>ManagedServiceFactory</code>` must be executed sequentially
  and not overlap in time.

* <p>
  In general, bundles having permission to use the Configuration Admin service
  can only access and modify their own configuration information. Accessing or
  modifying the configuration of another bundle requires
  `<code>ConfigurationPermission[*,CONFIGURE]</code>`.

* <p>
  `<code>Configuration</code>` objects can be `<i>bound</i>` to a specified bundle
  location. In this case, if a matching Managed Service or Managed Service
  Factory is registered by a bundle with a different location, then the
  Configuration Admin service must not do the normal callback, and it should
  log an error. In the case where a `<code>Configuration</code>` object is not
  bound, its location field is `<code>null</code>`, the Configuration Admin
  service will bind it to the location of the bundle that registers the first
  Managed Service or Managed Service Factory that has a corresponding PID
  property. When a `<code>Configuration</code>` object is bound to a bundle
  location in this manner, the Configuration Admin service must detect if the
  bundle corresponding to the location is uninstalled. If this occurs, the
  `<code>Configuration</code>` object is unbound, that is its location field is
  set back to `<code>null</code>`.

* <p>
  The method descriptions of this class refer to a concept of "the calling
* bundle". This is a loose way of referring to the bundle which obtained the
* Configuration Admin service from the service registry. Implementations of
* <code>ConfigurationAdmin</code> must use a
* [ @link org.osgi.framework.ServiceFactory ] to support this concept.
* *
* @version $Revision: 7356 $
*/

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jar/org/osgi/service/device/DriverLocator.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
jar/org/osgi/service/log/LogService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/http/NamespaceException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/log/LogEntry.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/device/Device.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/device/Constants.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/device/Driver.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/http/HttpService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/log/LogReaderService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/log/LogListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/http/HttpContext.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/util/gsm/IMSICondition.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/cm/ConfigurationPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/cm/ConfigurationEvent.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/application/ApplicationAdminPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/util/gsm/IMEICondition.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/util/cdma/MEIDCondition.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/deploymentadmin/DeploymentException.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/deploymentadmin/spi/ResourceProcessor.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/application/ApplicationException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/deploymentadmin/DeploymentAdminPermission.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/event/EventConstants.java
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/**
   * This interface is used to manage a database of named <code>Role</code> objects,
   * which can be used for authentication and authorization purposes.
   *
   * <p>
   * This version of the User Admin service defines two types of <code>Role</code>
   * objects: "User" and "Group". Each type of role is represented by an
   * <code>int</code> constant and an interface. The range of positive integers is
   * reserved for new types of roles that may be added in the future. When
   * defining proprietary role types, negative constant values must be used.
   *
   * <p>
   * Every role has a name and a type.
   *
   * <p>
   * A <code>User</code> object can be configured with credentials (e.g., a password)
   * and properties (e.g., a street address, phone number, etc.).
   *
   * <p>
   * A <code>Group</code> object represents an aggregation of <code>User</code> and
   * <code>Group</code> objects. In other words, the members of a <code>Group</code>
   * object are roles themselves.
   *
   * <p>
   * Every User Admin service manages and maintains its own namespace of
   * <code>Role</code> objects, in which each <code>Role</code> object has a unique

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  jar/org/osgi/service/device/Match.java
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/**
 * Returns the list of extension property keys, if the provider of this <code>MetaNode</code> provides proprietary extensions to node meta data. The method returns <code>null</code> if the node doesn't provide such extensions.
 *
 * @return the array of supported extension property keys
 */
/**
 * Returns the value for the specified extension property key. This method only works if the provider of this <code>MetaNode</code> provides proprietary extensions to node meta data.
 *
 * @param key the key for the extension property
 * @return the value of the requested property, cannot be <code>null</code>
 * @throws IllegalArgumentException if the specified key is not supported by this <code>MetaNode</code>
 */

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/event/TopicPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/event/Event.java
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/upnp/UPnPLocalStateVariable.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
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  jar/org/osgi/util/tracker/ServiceTrackerCustomizer.java

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1.1612 glibc 2.28

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = (((a, b)) => a)

^ not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int) => Int) = (((a, !!)) => a)

^ not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = {((a, NotAPatternVariableName, c)) => a}

3 errors
Scala includes the jQuery library:

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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=head1 NAME

Mozilla::CA - Mozilla's CA cert bundle in PEM format

=head1 SYNOPSIS

use IO::Socket::SSL;
use Mozilla::CA;

my $host = "www.paypal.com";
my $client = IO::Socket::SSL->new(PeerHost => "$host:443",
SSL_verify_mode => 0x02,
SSL_ca_file => Mozilla::CA::SSL_ca_file(),)
|| die "Can't connect: @";

$client->verify_hostname($host, "http")
|| die "hostname verification failure";

=head1 DESCRIPTION

Mozilla::CA provides a copy of Mozilla's bundle of Certificate Authority
certificates in a form that can be consumed by modules and libraries
based on OpenSSL.

The module provide a single function:

=over

=item SSL_ca_file()

Returns the absolute path to the Mozilla's CA cert bundle PEM file.

=back

=head1 SEE ALSO

L<http://curl.haxx.se/docs/caextract.html>

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---

abstract: "Mozilla's CA cert bundle in PEM format"
author:  
- 'Gisle Aas <gisle@activestate.com>'
built_requires:
  Test: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.142690'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Mozilla-CA
no_index:
directory:
  - t
  - inc
requires:
  perl: '5.006'
resources:
  repository: http://github.com/gisle/mozilla-ca
version: '20160104'
NAME
Mozilla::CA - Mozilla's CA cert bundle in PEM format

SYNOPSIS
use IO::Socket::SSL;
use Mozilla::CA;

my $host = "www.paypal.com";
my $client = IO::Socket::SSL->new(
    PeerHost => "$host:443",
    SSL_verify_mode => 0x02,
    SSL_ca_file => Mozilla::CA::SSL_ca_file(),
)
|| die "Can't connect: $@";

$client->verify_hostname($host, "http")
|| die "hostname verification failure";

DESCRIPTION
Mozilla::CA provides a copy of Mozilla's bundle of Certificate Authority
certificates in a form that can be consumed by modules and libraries
based on OpenSSL.

The module provide a single function:

SSL_ca_file()
    Returns the absolute path to the Mozilla's CA cert bundle PEM file.

SEE ALSO
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Found in path(s):

* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-jar/org/iso_relax/dispatcher/impl/IgnoredSchema.java

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 * @(#)Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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1.1648 paktype-naskh-basic-fonts 4.1 9.el8

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* Arabic Supplement (0750-077F)

* Arabic Extended A (08A0 - 08FF)

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* Basic Latin (0000 - 007F)

* Latin-1 Supplement (0080 - 00FF)

* General Punctuation (2000 - 206F)

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1.1652 jackson-dataformat-yaml 2.11.2
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Jackson is a high-performance, Free/Open Source JSON processing library.
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jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
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Driver: snd-korg1212 -- Korg 1212 IO audio device
File: korg/k1212.dsp
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Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

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Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

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Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

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Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qllogic/1040.bin
File: qllogic/1280.bin
File: qllogic/12160.bin
Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

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Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

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Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

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Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
Converted from Intel HEX files, used in our binary representation of ihex.

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--------------------------------------------------------------------------

Driver: keysan_pda -- USB Keyspan PDA single-port serial device

File: keysan_pda/keysan_pda.fw
Source: keysan_pda/keysan_pda.S

File: keysan_pda/xircom_pgs.fw
Source: keysan_pda/xircom_pgs.S

Source: keysan_pda/Makefile

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Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

--------------------------------------------------------------------------
Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

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 * any third party without Emagic's written consent. All Rights Reserved.
 * Permission is hereby granted for the distribution of this firmware
 * image as part of a Linux or other Open Source operating system kernel
 * in text or binary form as required.
 * This firmware may not be modified and may only be used with the
 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

--------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.


--------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown
Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
Port 1 LED flashes when the vend_ax program is running
Port 2 LED flashes when any SETUP command arrives
Port 3 LED flashes when any valid VENDOR request occurs
Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux
File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

* Copyright (C) 1999 BayCom GmbH
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that redistributions of source
* code retain the above copyright notice and this comment without
* modification.

--------------------------------------------------------------------------

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:
//******************************************************************************
// Edgeport/4 Binary Image
// Generated by HEX2C v1.06
// Copyright (C) 1998 Inside Out Networks, All rights reserved.
//******************************************************************************

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: io_ti - USB Inside Out Edgeport Serial Driver (TI Devices)

File: edgeport/down3.bin

Licence:
Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
/*
* Copyright (c) 1994 Creative Technology Ltd.
* Microcode files for SB16 Advanced Signal Processor
*/

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

------------------------------------------------------------------------

Driver: cassini - Sun Cassini
File: sun/cassini.bin
Licence: Unknown
Found in hex form in kernel source.

------------------------------------------------------------------------

Driver: slicoss - Alacritech IS-NIC products
File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvucode.sys
Licence:
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image as part of a Linux or other Open Source operating system kernel
in text or binary form as required.

This firmware may not be modified.

Found in hex form in kernel source.

------------------------------------------------------------------------

Driver: sxg - Alacritech IS-NIC products
File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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This firmware may not be modified.

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

--------------------------------------------------------------------------

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/acl2005_opt_edc.bin
File: cxgb3/acl2005_twx_edc.bin
File: cxgb3/acl2020_twx_edc.bin

Licence:
*Copyright (c) 2007-2009 NetLogic Microsystems, Inc.
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*data in hexadecimal or equivalent format, provided this copyright
*notice is accompanying it.
Found in hex form in kernel source.

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.25.6.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.25.6.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.25.6.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.25.6.0.bin
File: cxgb4/t6fw-1.25.6.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.25.6.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown
Found in hex form in kernel source, but source allegedly available at http://alteon.shareable.org/

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

Licence:
* Firmware is:
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* 
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* notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from http://linuxwimax.org/Download

--------------------------------------------------------------------------------------------------

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

--------------------------------------------------------------------------------------------------

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1
File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell’s ”Extranet” with permission. 8366 images contributed directly by Marvell.

Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.
Originates from https://github.com/NXP/mwifiex-firmware.git

-------------------------------------------------------------------------------------------------

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)
File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1
File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version: 16.242414.0

File: iwlwifi-7260-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version: 16.242414.0
File: iwlwifi-7265D-29.ucode  
Version: 29.f2390aa8.0

File: iwlwifi-3168-21.ucode  
Version: 21.302800.0

File: iwlwifi-3168-22.ucode  
Version: 22.391740.0

File: iwlwifi-3168-27.ucode  
Version: 27.541033.0

File: iwlwifi-3168-29.ucode  
Version: 29.0bd893f3.0

File: iwlwifi-8000C-13.ucode  
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode  
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode  
Version: 21.302800.0

File: iwlwifi-8000C-22.ucode  
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode  
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode  
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode  
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode  
Version: 36.ca7b901d.0

File: iwlwifi-8265-21.ucode  
Version: 21.302800.0

File: iwlwifi-8265-22.ucode  
Version: 22.391740.0

File: iwlwifi-8265-27.ucode  
Version: 27.541033.0
File: iwlwifi-8265-31.ucode
Version: 31.560484.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0
File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-hr-b0-53.ucode
Version: 53.c31ac674.0
File: iwlwifi-Qu-b0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-ty-a0-gf-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-cc-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.ucode
Version: 63.c04f3485.0
File: iwlwifi-Qu-c0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0.pnvm

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

------------------------------------------------------------------------

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311fce49c5a180b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

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------------------------------------------------------------------------

Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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------------------------------------------------------------------------

Driver: tehuti - Tehuti Networks 10G Ethernet
File: tehuti/bdx.bin

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Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:
/*
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Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998

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Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * warranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 * - Loaded from xl_init upon adapter initialization.
 *
 * Available from 3Com as part of their standard 3C359 driver.
 */

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter
File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin

Licence: Unknown

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Driver: myri_sbus - MyriCOM Gigabit Ethernet
File: myricom/lanai.bin
Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.2.51.0.fw
File: bnx2x/bnx2x-e1h-7.2.51.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.2.0.fw
File: bnx2x/bnx2x-e1h-7.8.2.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.17.0.fw
File: bnx2x/bnx2x-e1h-7.8.17.0.fw
File: bnx2x/bnx2x-e2-7.8.17.0.fw
File: bnx2x/bnx2x-e1-7.8.19.0.fw
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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
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---------------------------------------------------------------

Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.


---------------------------------------------------------------

Driver: dvb-tpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

---------------------------------------------------------------
Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
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Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from http://www.mediatek.com/en/downloads/

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details


------------------------------------------------------------------------

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

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Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

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Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

------------------------------------------------------------------------

Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details
Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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-------------------------------------------------------------------------

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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--------------------------------------------------------------------------

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_cp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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------------------------------------------------------------------------
Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
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File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
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File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
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File: amdgpu/tahiti_uvd.bin
File: amdgpu/pitcairn_ce.bin
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File: amdgpu/dimgrey_cavefish_sos.bin
File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin

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Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qlogic/sd7220.fw

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* SOFTWARE.

Found in hex form in kernel source.

___________________________________________________________________

Driver: qed - QLogic 4xxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeIW0.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPeP.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on

-------------------------------------------------------------------

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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-------------------------------------------------------------------

Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

-------------------------------------------------------------------

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
File: cypress/cyfmac4356-sdio.bin
Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfmac4356-sdio.bin
File: cypress/cyfmac4356-sdio.clm_blob
Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfmac4356-sdio.clm_blob
File: cypress/cyfmac43570-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
Licence: Redistributable. See LICENCE.cypress for details.

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.preidia-basic.txt"
File: "brcm/brcmfmac43340-sdio.preidia-basic.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
File: "brcm/brcmfmac43362-sdio.lemaker,bananapod.txt -> brcmfmac43362-sdio.cubietech,cubietruck.txt"
File: "brcm/brcmfmac43362-sdio.lemaker,bananapod.txt -> brcmfmac43362-sdio.cubietech,cubietruck.txt"
File: "brcm/brcmfmac43430a0-sdio.ilife-S806.txt"
File: "brcm/brcmfmac43430a0-sdio.ilife-S806.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt -> brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt -> brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-zero.txt -> brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-zero.txt -> brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.sinovoip,bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.sinovoip,bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt"
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt -> brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt -> brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
File: "brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ 4\ Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
File: "brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ 4\ Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
File: "brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ Compute\ Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
File: "brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ Compute\ Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
File: "brcm/brcmfmac43456-pcie.gpd-win-pocket.txt"
File: "brcm/brcmfmac43456-pcie.gpd-win-pocket.txt"
File: "brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.vamrs,rock960.txt"
File: "brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.vamrs,rock960.txt"

Licence: GPLv2. See GPL-2 for details.
Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
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Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

------------------------------------------------

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

------------------------------------------------

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin  
Version: 6.3.5.0.98 (Single-role) 
File: ti-connectivity/wl127x-fw-4-mr.bin  
Version: 6.5.2.0.15 (Multi-role)  
File: ti-connectivity/wl127x-fw-4-plt.bin  
Version: 6.3.5.0.98 (PLT-only)  
File: ti-connectivity/wl127x-fw-5-sr.bin  
Version: 6.3.10.0.142 (Single-role)  
File: ti-connectivity/wl127x-fw-5-mr.bin  
Version: 6.5.7.0.50 (Multi-role)  
File: ti-connectivity/wl127x-fw-5-plt.bin  
Version: 6.3.10.0.142 (PLT-only)  

File: ti-connectivity/wl128x-fw.bin  
Version: 7.1.5.50.74 (STA-only)  
File: ti-connectivity/wl128x-fw-ap.bin  
Version: 7.2.1.0.54 (AP-only)  
File: ti-connectivity/wl128x-fw-3.bin  
Version: 7.3.0.0.77  
File: ti-connectivity/wl128x-fw-plt-3.bin  
Version: 7.3.0.0.77  
File: ti-connectivity/wl128x-fw-4-sr.bin  
Version: 7.3.5.0.98 (Single-role)  
File: ti-connectivity/wl128x-fw-4-mr.bin  
Version: 7.5.2.0.15 (Multi-role)  
File: ti-connectivity/wl128x-fw-4-plt.bin  
Version: 7.3.5.0.98 (PLT)  
File: ti-connectivity/wl128x-fw-5-sr.bin  
Version: 7.3.10.0.142 (Single-role)  
File: ti-connectivity/wl128x-fw-5-mr.bin  
Version: 7.5.7.0.50 (Multi-role)  
File: ti-connectivity/wl128x-fw-5-plt.bin  
Version: 7.3.10.2.142 (PLT-only)  

File: ti-connectivity/wl127x-nvs.bin  
File: ti-connectivity/wl128x-nvs.bin  
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin  
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin  

Licence: Redistributable. See LICENCE.ti-connectivity for details.  

The NVS file includes two parts:  
- radio calibration  
- HW configuration parameters (aka. INI values)  

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.
Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

Telegent System grants permission to use and redistribute these firmware files for use with devices containing the chip tlg2300, but not as a part of the Linux kernel or in any other form which would require these files themselves to be covered by the terms of the GNU General Public License. These firmware files are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/r8712u.bin
Info: From Vendor's r8712u/8188_8191_8192SU_usb_linux_v7.0.20100831
    Reverted r8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin
Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver
    All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHwImg.c
Relevant variables (CONFIG_BT_COEXISTENCE not set):
- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFwUMCACutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFwTSMCImgArray

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE

Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU

Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU

Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821e_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN for RTL8822C devices, after kernel v5.6+. So, make sure the firmware rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported by rtw88 because the hardware arch is similar.

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A

File: rtw89/rtw8852a_fw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

------------------------------------------------------------------------

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

------------------------------------------------------------------------

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
File: rtlwifi/rtl8723bs_nic.bin
File: rtlwifi/rtl8723bs_ap_wowlan.bin
File: rtlwifi/rtl8723bs_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

------------------------------------------------------------------------

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin
Info: rtl8192eu taken from Realtek driver
   rtl8192EU_linux_v4.3.1.1_11320.20140505
   Firmware is embedded in the driver as data statements. This info has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw
File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1
File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1
File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2
File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2
File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1
File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2
File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2
File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1
File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2
File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:
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*
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* data in hexadecimal or equivalent format, provided this copyright
* notice is accompanying it.

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Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw
Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw


Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x11020001_26.dfu
File: ar3k/ramps_0x11020001_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details.

Driver: Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

------------------------------------------------------------------------------------------------------------------------

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeeprom.data
File: ath6k/AR6002/eeeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details
Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

<table>
<thead>
<tr>
<th>File: ath10k/QCA988X/hw2.0/board.bin</th>
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<tbody>
<tr>
<td>Version: 10.2.4.45</td>
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<td>Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt</td>
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<th>File: ath10k/QCA988X/hw2.0/firmware-4.bin</th>
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<td>Version: 10.2.4-1.0-00047</td>
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<tr>
<td>Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt</td>
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<tr>
<th>File: ath10k/QCA6174/hw2.1/board.bin</th>
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<td>File: ath10k/QCA6174/hw2.1/firmware-5.bin</td>
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<td>Version: SW_RM.1.1.1-00157-QCARMSWPZ-1</td>
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<td>Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt</td>
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<th>File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin</th>
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<td>Version: WLAN.RMH.4.4.1-00077</td>
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<tr>
<th>File: ath10k/QCA9377/hw1.0/board.bin</th>
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<tr>
<td>File: ath10k/QCA9377/hw1.0/firmware-5.bin</td>
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<td>Version: WLAN.TF.1.0-00002-QCATFSWPZ-5</td>
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<td>Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt</td>
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<th>File: ath10k/QCA4019/hw1.0/board-2.bin</th>
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<td>Version: 10.4.3.6-00140</td>
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<td>Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt</td>
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<th>File: ath10k/QCA9887/hw1.0/board.bin</th>
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<td>File: ath10k/QCA9887/hw1.0/firmware-5.bin</td>
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<td>Version: 10.2.4-1.0-00047</td>
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File: ath10k/QCA9888/hw2.0/firmware-5.bin  
Version: 10.4-3.9.0.2-00131  
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt  
File: ath10k/QCA9984/hw1.0/board-2.bin  
File: ath10k/QCA9984/hw1.0/firmware-5.bin  
Version: 10.4-3.9.0.2-00131  
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt  
File: ath10k/WCN3990/hw1.0/firmware-5.bin  
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn  
Link: qcom/sdm845/wlanmdsp.mbn -> ../../ath10k/WCN3990/hw1.0/wlanmdsp.mbn  
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1  
Licence: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp  
Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

-------------------------------------------------------------------------------

Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin  
File: ath11k/IPQ6018/hw1.0/m3_fw.b00  
File: ath11k/IPQ6018/hw1.0/m3_fw.b01  
File: ath11k/IPQ6018/hw1.0/m3_fw.b02  
File: ath11k/IPQ6018/hw1.0/m3_fw.flist  
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt  
File: ath11k/IPQ6018/hw1.0/q6_fw.b00  
File: ath11k/IPQ6018/hw1.0/q6_fw.b01  
File: ath11k/IPQ6018/hw1.0/q6_fw.b02  
File: ath11k/IPQ6018/hw1.0/q6_fw.b03  
File: ath11k/IPQ6018/hw1.0/q6_fw.b04  
File: ath11k/IPQ6018/hw1.0/q6_fw.b05  
File: ath11k/IPQ6018/hw1.0/q6_fw.b07  
File: ath11k/IPQ6018/hw1.0/q6_fw.b08  
File: ath11k/IPQ6018/hw1.0/q6_fw.flist  
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt  
Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2  
Licence: ath11k/IPQ6018/hw1.0/Notice.txt  
File: ath11k/IPQ8074/hw2.0/board-2.bin  
File: ath11k/IPQ8074/hw2.0/m3_fw.b00  
File: ath11k/IPQ8074/hw2.0/m3_fw.b01  
File: ath11k/IPQ8074/hw2.0/m3_fw.b02  
File: ath11k/IPQ8074/hw2.0/m3_fw.flist  
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt  
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_FW.mdt

Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2
License: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-01740-QCAHSTSWPLZ_V2_TO_X86-1
License: ath11k/QCA6390/hw2.0/Notice.txt

License: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

--------------------------------------------------------------------------

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENSE.myri10ge_firmware for details.

--------------------------------------------------------------------------

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details.
Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

Licence: Redistributable.

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin

Licence: Redistributable. See LICENCE.ene_firmware for details.

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

Licence: Redistributable.

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from http://linuxwireless.org/en/users/Drivers/carl9170

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec
File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
Version: BT_StonePeak_D1_REL_66_1167
File: intel/ibt-11-5.dcc
Version: LnP/SfP_REL0522
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.dcc
Version: BT_WindStormPeak_REL0306
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0306
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-16-1.dcc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.dcc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL23884
File: intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL23884

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl.bt/rtl8192ee_fw.bin
File: rtl.bt/rtl8192eu_fw.bin
File: rtl.bt/rtl8723a_fw.bin
File: rtl.bt/rtl8723b_fw.bin
File: rtl.bt/rtl8723bs_fw.bin
File: rtl.bt/rtl8723bs_config-OBDA8723.bin
Link: rtl.bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl.bt/rtl8761a_fw.bin
File: rtl.bt/rtl8761b_fw.bin
File: rtl.bt/rtl8761b_config.bin
File: rtl.bt/rtl8761bu_fw.bin
File: rtl.bt/rtl8761bu_config.bin
File: rtl.bt/rtl8812ae_fw.bin
File: rtl.bt/rtl8821a_fw.bin
Link: rtl.bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl.bt/rtl8822b_fw.bin
File: rtl.bt/rtl8822b_config.bin
File: rtl.bt/rtl8723d_fw.bin
File: rtl.bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver
File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: rp2 -- Comtrol RocketPort 2 serial driver
File: rp2.fw

Licence: Redistributable.

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/IR192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

---------------------------------------------------------------------

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2020-11-20
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2020-11-20

License: Redistributable. See LICENSE.amd-sev for details

---------------------------------------------------------------------

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux
File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2019-12-18

License: Redistributable. See LICENSE.amd-ucode for details

Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin
License:
Copyright (c) 2011-2013 Sagrad, Inc.

This SDD ("Static Dynamic Data") file is licensed strictly for use with the Sagrad WiFi modules (such as the SG901-1091/1098) that utilize the cw1200 driver. There is no warranty expressed or implied about its fitness for any purpose.

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(Please note that the actual device firmware is separately licensed)

.Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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QLogic grants permission to use and redistribute these firmware files for use with QLogic BR-series devices, but not as a part of the Linux kernel or in any other form which would require these files themselves to be covered by the terms of the GNU General Public License. These firmware files are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

Licence:
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* Copyright (C) 2019 Redpine Signals Inc.
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* provided this copyright notice is accompanying it.

Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

---------------------------------------------------------------

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

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Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

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Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

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Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details

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Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details
Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> dsp_fw_release_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v3366.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details
File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp_fw_cnl.bin -> dsp_fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details

--------------------------------------------------------------------------

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

--------------------------------------------------------------------------

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24
File: nvidia/tegra186/xusb.bin
Version: v55.15

File: nvidia/tegra194/xusb.bin
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin

File: nvidia/tegra186/vic04_ucode.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucode.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
File: atusb/atusb-0.3.dfu
Version: 0.3
File: atusb/rzusb-0.3.bin
Version: 0.3
Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

-----------------------------------------------

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htmv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0110.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

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Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin
Version: v1.7.2
File: liquidio/lio_210nv_nic.bin
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

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Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

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Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton
File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake
File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake
File: i915/tgl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_huc_7.0.3.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for DG1

File: i915/dg1_huc_7.7.1.bin
Version: Huc API/APB ver 7 release 1 for DG1

File: i915/adls_dmc_ver2_01.bin
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P
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--------------------------------------------------------------------------

Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctxt.bin

Link: nvidia/gm204/acr/bl.bin -> ../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctxt.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../../../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctxt.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../../../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gr/gpccs_bl.bin -> ../../../gm200/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctxt.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctxt.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
Link: nvidia/gp102/gr/fecs_bl.bin -> ../../../gm200/gr/fecs_bl.bin
File: nvidia/gp102/gr/fecs_data.bin
File: nvidia/gp102/gr/fecs_inst.bin
File: nvidia/gp102/gr/fecs_sig.bin
Link: nvidia/gp102/gr/gpccs_bl.bin -> ../../../gm200/gr/gpccs_bl.bin
File: nvidia/gp102/gr/gpccs_data.bin
File: nvidia/gp102/gr/gpccs_inst.bin
File: nvidia/gp102/gr/gpccs_sig.bin
File: nvidia/gp102/gr/sw_bundle_init.bin
File: nvidia/gp102/gr/sw_ctxt.bin
File: nvidia/gp102/gr/sw_method_init.bin
File: nvidia/gp102/gr/sw_nonctxt.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
Link: nvidia/gp107/acr/ucode_unload.bin -> ../../../gp102/acr/ucode_unload.bin
Link: nvidia/gp107/acr/unload_bl.bin -> ../../../gp102/acr/unload_bl.bin
File: nvidia/gp107/gr/fecs_bl.bin
File: nvidia/gp107/gr/fecs_data.bin
File: nvidia/gp107/gr/fecs_inst.bin
File: nvidia/gp107/gr/fecs_sig.bin
File: nvidia/gp107/gr/gpccs_bl.bin
File: nvidia/gp107/gr/gpccs_data.bin
File: nvidia/gp107/gr/gpccs_inst.bin
File: nvidia/gp107/gr/gpccs_sig.bin
Link: nvidia/gp107/gr/sw_bundle_init.bin -> ../../../gp102/gr/sw_bundle_init.bin
File: nvidia/gp107/gr/sw_ctx.bin
Link: nvidia/gp107/gr/sw_method_init.bin -> ../../../gp102/gr/sw_method_init.bin
File: nvidia/gp107/gr/sw_nonctx.bin
Link: nvidia/gp107/nvdec/scrubber.bin -> ../../../gp102/nvdec/scrubber.bin
Link: nvidia/gp107/sec2/desc.bin -> ../../../gp102/sec2/desc.bin
Link: nvidia/gp107/sec2/image.bin -> ../../../gp102/sec2/image.bin
Link: nvidia/gp107/sec2/sig.bin -> ../../../gp102/sec2/sig.bin
Link: nvidia/gp107/sec2/desc-1.bin -> ../../../gp102/sec2/desc-1.bin
Link: nvidia/gp107/sec2/image-1.bin -> ../../../gp102/sec2/image-1.bin
Link: nvidia/gp107/sec2/sig-1.bin -> ../../../gp102/sec2/sig-1.bin
File: nvidia/gp10b/acr/bl.bin
File: nvidia/gp10b/acr/ucode_load.bin
File: nvidia/gp10b/gr/fecs_bl.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin
File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
Link: nvidia/gp108/acr/bl.bin -> ../../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../../gp102/acr/unload_bl.bin
File: nvidia/gp108/gr/fecs_bl.bin
File: nvidia/gp108/gr/fecs_data.bin
File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
File: nvidia/gp108/gr/gpccs_bl.bin
File: nvidia/gp108/gr/gpccs_data.bin
File: nvidia/gp108/gr/gpccs_inst.bin
File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
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File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
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File: nvidia/gv100/gr/gpccs_inst.bin
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File: nvidia/gv100/gr/sw_bundle_init.bin
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File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
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File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
File: nvidia/tu102/gr/fecs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_ash.bin
File: nvidia/tu116/acr/ucodeUnload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_ash.bin -> ../../tu116/acr/ucode_ash.bin
Link: nvidia/tu117/acr/ucodeUnload.bin -> ../../tu116/acr/ucodeUnload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd
Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.4

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Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

License: Redistributable. See LICENSE.hfi1_firmware for details

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

License: Redistributable. See LICENSE.ti-keystone for details.

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10
Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

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Driver: mtk_scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

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Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

---------------------------------------------------------------------

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

---------------------------------------------------------------------

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-h370

Licence: Redistributable. See LICENCE.mediatek for details.

---------------------------------------------------------------------

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

---------------------------------------------------------------------

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

--------------------------------------------------------------------------

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

--------------------------------------------------------------------------

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200131
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

--------------------------------------------------------------------------

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

--------------------------------------------------------------------------

Driver: mt7915e - MediaTek MT7915e Wireless MACs
File: mediatek/mt7915_wm.bin  
Version: 20201105  
File: mediatek/mt7915_wa.bin  
Version: 20201105  
File: mediatek/mt7915_rom_patch.bin  
Version: 20201105  
Licence: Redistributable. See LICENCE.mediatek for details.

-----------------------------------------------------------------------------

Driver: mt7921 - MediaTek MT7921 Wireless MACs  
File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin  
Version: 20210612122717a  
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin  
Version: 20210612122753  
Licence: Redistributable. See LICENCE.mediatek for details.

-----------------------------------------------------------------------------

Driver: mt7921 - MediaTek MT7921 bluetooth chipset  
File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin  
Version: 20210223142901  
Licence: Redistributable. See LICENCE.mediatek for details.

-----------------------------------------------------------------------------

Driver: nfP - Netronome Flow Processor  
Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw  
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw  
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw  
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw  
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw -> nic/nic_AMDA0097-0001_4x10_1x40.nffw  
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw -> nic/nic_AMDA0099-0001_1x10_1x25.nffw  
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw  
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw  
Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw  
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw  
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw  
Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw  
File: netronome/nic_AMDA0081-0001_1x40.nffw  
File: netronome/nic_AMDA0097-0001_2x40.nffw  
File: netronome/nic_AMDA0099-0001_2x10.nffw  
File: netronome/nic_AMDA0081-0001_4x10.nffw

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File: netronome/nic/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0078-0011_1x100.nffw
File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x10.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw


File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

------------------------------------------------------------------------

Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

------------------------------------------------------------------------

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109
File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt
File: qcom/venus-5.4/venus.b00
File: qcom/venus-5.4/venus.b01
File: qcom/venus-5.4/venus.b02
File: qcom/venus-5.4/venus.b03
File: qcom/venus-5.4/venus.b04
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt
File: qcom/vpu-1.0/venus.b00
File: qcom/vpu-1.0/venus.b01
File: qcom/vpu-1.0/venus.b02
File: qcom/vpu-1.0/venus.b03
File: qcom/vpu-1.0/venus.b04
File: qcom/vpu-1.0/venus.b05
File: qcom/vpu-1.0/venus.b06
File: qcom/vpu-1.0/venus.b07
File: qcom/vpu-1.0/venus.b08
File: qcom/vpu-1.0/venus.b09
File: qcom/vpu-1.0/venus.b10
File: qcom/vpu-1.0/venus.b19
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt
File: qcom/vpu-2.0/venus.b00
File: qcom/vpu-2.0/venus.b01
File: qcom/vpu-2.0/venus.b02
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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https://developer.qualcomm.com/hardware/dragonboard-410c/tools

--------------------------------------------------------------------------

Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

Licence: Redistributable. See LICENSE.sdma_firmware for details

--------------------------------------------------------------------------

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw  
File: qcom/sdm845/a630_zap.mbn  
File: qcom/a650_gmu.bin  
File: qcom/a650_sqe.fw  
File: qcom/sm8250/a650_zap.mbn  
File: qcom/a660_gmu.bin  
File: qcom/a660_sqe.fw

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Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/sdm845/adsp.mbn  
File: qcom/sdm845/adspr.jsn  
File: qcom/sdm845/adspua.jsn  
File: qcom/sdm845/cdsp.mbn  
File: qcom/sdm845/cdspr.jsn  
File: qcom/sm8250/adsp.mbn  
File: qcom/sm8250/adspr.jsn  
File: qcom/sm8250/adspua.jsn  
File: qcom/sm8250/cdsp.mbn  
File: qcom/sm8250/cdspr.jsn

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Binary files supplied originally from  
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip  
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using  
https://github.com/andersson/pil-squasher

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using  
https://github.com/andersson/pil-squasher

--------------------------------------------------------------------------

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn  
File: qcom/sdm845/modem.mbn  
File: qcom/sdm845/modemuw.jsn
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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2

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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

Licence: Redistributable. See LICENCE.cadence for details

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Driver: fsl-mc bus - NXP Management Complex Bus Driver
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

Licence: Redistributable. See LICENSE.nxp_mc_firmware for details

Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

Licence: Redistributable. See LICENSE.microchip for details

Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sm1_hevc_mmu.bin
File: meson/vdec/sm1_vp9_mmu.bin

Licence: Redistributable. See LICENSE.amlogic_vdec for details.
Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.16.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.16.0.pkg

License: Redistributable. See LICENSE.ice for details

File: intel/ice/ddp-comms/ice_comms-1.3.20.0.pkg

License: Redistributable. See LICENSE.ice_enhanced for details

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Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin
File: inside-secure/eip197_minifw/ifpp.bin

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Driver: prestera - Marvell driver for Prestera family ASIC devices

File: mrvl/prestera/mvsw_prestera_fw-v2.0.img
File: mrvl/prestera/mvsw_prestera_fw-v3.0.img

Licence: Redistributable. See LICENCE.Marvell for details.

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Driver: lt9611uxc - Lontium DSI to HDMI bridge

File: lt9611uxc_fw.bin

License: Redistributable. See LICENSE.Lontium for details.

-----------------------------------------------------------------------------

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: silabs/wfm_wf200_C0.sec
Version: 3.12.1

Licence: Redistributable. See silabs/LICENCE.wf200 for details.
Originates from https://github.com/SiliconLabs/wfx-firmware
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1.1685 biosdevname 0.7.3 2.el8

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1.1686 lame 3.100-6.el8

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1.1697 icu 60.3 2.el8_1
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
%

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$SHELL -ec '$(GEN_DEPS.c) $< \
| sed "s/\(^.*\)\.o[ :]*/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@' 
%

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$SHELL -ec '$(GEN_DEPS.cc) $< \
| sed "s/\(^.*\)\.o[ :]*/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@' 
%

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
%

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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go-runhcs is a fork of go-runc

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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its purpose remains meaningful.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.1730 shiro-crypto-hash 1.8.0

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/AddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/ChannelId.java

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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}. 
 *
 * @ch3>Sub-types</ch3>
 * @p>
 * { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * @ul>
 * @li>{ @link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * @li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * @p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * @ul>
 * @li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * @li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * @li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * @p>
 * For more information, please refer to the documentation of each subtype.
* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey]s) which is specific to the handler.

* **State management**

* A [@link ChannelHandler] often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    ...  
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

* // Create a new handler instance per channel.

* // See [@link ChannelInitializer#initChannel(Channel)].

* public class DataServerInitializer extends ChannelInitializer&amp;lt;Channel&amp;gt; {

    ...  

* {@code @Override}
* public void initChannel({@link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
* }
* }
* </pre>
* *
* * Using {@link AttributeKey}s</h4>
* *
* * Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* * In such a case, you can use {@link AttributeKey}s which is provided by
* * {@link ChannelHandlerContext}:
* * <pre>
* public interface Message {
*    // your methods here
* }
* *
* * {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*     private final {@link AttributeKey}<@link Boolean> auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* *
* * {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
The {@code @Sharable} annotation

In the example above which used an {@link AttributeKey}, you might have noticed the {@code @Sharable} annotation. If a {@link ChannelHandler} is annotated with the {@code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more {@link ChannelPipeline}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/" the JCIP annotations.

Additional resources worth reading

Please refer to the {@link ChannelHandler}, and {@link ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ExtendedClosedChannelException.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelHandlerMask.java

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  <title>Section 8</title>

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</sect2>

<sect2 id="sect9" label="9">
  <title>Section 9</title>

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</sect2>

<sect2 id="sect15" label="15">
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<subtitle>Section 15</subtitle>

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<sect2 id="sect16" label="16">
<title>Section 16</title>

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</sect2>
</sect1>
</article>

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<abstract role="description"><para>
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<sect1 id="preamble" label="none">
<title>Preamble</title>

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<orderedlist numeration="loweralpha">
  <listitem>
    <para>
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  </listitem>
  <listitem>
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  </listitem>
  <listitem>
    <para>
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    </para>
    <note>
      <title>Exception:</title>
      <para>
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        announcement.
      </para>
    </note>
  </listitem>
</orderedlist>

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</sect2>

<sect2 id="sect6" label="6">
<title>Section 6</title>

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<title>Section 7</title>

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* /opt/cola/permits/1002302782_1654022908.9440389/0/jboss-sasl-1-0-3-final-sources.jar/org/jboss/sasl/clienttoken/ClientTokenSaslClient.java
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* /
/
/*
/*
* If QOP is set to 'auth-conf', a DIGEST-MD5 mechanism must have
* support for the DES and Triple DES cipher algorithms (optionally,
* support for RC4 [128/56/40 bit keys] ciphers) to provide for
* confidentiality. See RFC 2831 for details. This implementation
* provides support for DES, Triple DES and RC4 ciphers.
*
* The value of strength effects the strength of cipher used. The mappings
* of 'high', 'medium', and 'low' give the following behaviour.
*
*  HIGH_STRENGTH   - Triple DES
*                  - RC4 (128bit)
*  MEDIUM_STRENGTH - DES
*                  - RC4 (56bit)
*  LOW_STRENGTH    - RC4 (40bit)
* /
/**
/*
* Implementation of the SecurityCtx interface allowing for messages
* between the client and server to be integrity checked and encrypted.
* After a successful DIGEST-MD5 authentication, privacy is invoked if the
* SASL QOP (quality-of-protection) is set to 'auth-conf'.
* <p>
* Further details on the integrity-protection mechanism can be found
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*
* @author Jonathan Bruce
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/FrameworkEvent.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/condpermadmin/ConditionalPermissionInfo.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/condpermadmin/Condition.java

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/condpermadmin/BundleLocationCondition.java

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*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/condpermadmin/ConditionalPermissionAdmin.java
*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/condpermadmin/BundleSignerCondition.java
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  jar/org/osgi/framework/hooks/service/FindHook.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-service/condpermadmin/ConditionalPermissionUpdate.java
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*/
/**
 * Creates a new <code>PackagePermission</code> object.
 * 
 * <p>
 * The name is specified as a normal Java package name: a dot-separated
 * string. Wildcards may be used.
 * 
 * <pre>
 * name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot;&gt; | *
 * </pre>
 * 
 * Examples:
 * 
 * <pre>
 * org.osgi.service.http
 * javax.servlet.*
 * *
 * </pre>
 * 
 * For the <code>import</code> action, the name can also be a filter
 * expression. The filter gives access to the following attributes:
 * <ul>
 * <li>signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.</li>
 * <li>location - The location of the exporting bundle.</li>
 * <li>id - The bundle ID of the exporting bundle.</li>
 * <li>name - The symbolic name of the exporting bundle.</li>
 * <li>package.name - The name of the requested package.</li>
 * </ul>
 * Filter attribute names are processed in a case sensitive manner.
 * 
 * Package Permissions are granted over all possible versions of a package.
 * 
 * A bundle that needs to export a package must have the appropriate
 * <code>PackagePermission</code> for that package; similarly, a bundle that
 * needs to import a package must have the appropriate
 * <code>PackagePermission</code> for that package.
 * 
 * Permission is granted for both classes and resources.
* @param name Package name or filter expression. A filter expression can
* only be specified if the specified action is <code>import</code>.
* @param actions <code>exportonly</code>, <code>import</code> (canonical
* order).
* @throws IllegalArgumentException If the specified name is a filter
* expression and either the specified action is not
* <code>import</code> or the filter has an invalid syntax.
*/

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*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleEvent.java
*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleContext.java
*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Configurable.java
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*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServicePermission.java
*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceReference.java
*/opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/AdminPermission.java
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* /opt/cola/permits/1132217478_1613127164-67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/SynchronousBundleListener.java
* /opt/cola/permits/1132217478_1613127164-67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/packageadmin/ExportedPackage.java

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/launch/FrameworkFactory.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleReference.java

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 */

/**
 * Specified the persistent storage area used by the framework. The value of
 * this property must be a valid file path in the file system to a
 * directory. If the specified directory does not exist then the framework
 * will create the directory. If the specified path exists but is not a
 * directory or if the framework fails to create the storage directory, then
 * framework initialization must fail. The framework is free to use this
 * directory as it sees fit. This area can not be shared with anything else.
 * <p>
 * If this property is not set, the framework should use a reasonable
 * platform default for the persistent storage area.
 * @since 1.5
 */

Found in path(s):
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Constants.java

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/InvalidSyntaxException.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleException.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceListener.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleListener.java

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/packageadmin/PackegeAdmin.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/url/URLStreamHandlerService.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/url/URLConstants.java
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 */

/**
 * Return the certificates for the signers of this bundle and the
 * certificate chains for those signers.
 *
 * @param signersType If [@link #SIGNERS_ALL] is specified, then information
 * on all signers of this bundle is returned. If
 * [@link #SIGNERS_TRUSTED] is specified, then only information on
 * the signers of this bundle trusted by the framework is returned.
 *
 * @return The <code>X509Certificate</code>s for the signers of this bundle
 * and the <code>X509Certificate</code> chains for those signers.
 * The keys of the <code>Map</code> are the
 * <code>X509Certificate</code>s of the signers of this bundle. The
 * value for a key is a <code>List</code> containing the
 * <code>X509Certificate</code> chain for the signer. The first item
 * in the <code>List</code> is the signer's
 * <code>X509Certificate</code> which is then followed by the rest
 * of the <code>X509Certificate</code> chain. The returned
 * <code>Map</code> will be empty if there are no signers. The
 * returned <code>Map</code> is the property of the caller who is
 * free to modify it.
 *
 * @throws IllegalArgumentException If the specified
 * <code>signersType</code> is not [@link #SIGNERS_ALL] or
 * [@link #SIGNERS_TRUSTED].
 * @since 1.5
 */

Found in path(s):
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Bundle.java
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.1781 d-conf 0.28.0-4.el8

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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DomainClientImpl(InetAddress address, int port) { public DomainClientImpl(InetAddress address, int port,
CallbackHandler handler) { public DomainClientImpl(ModelControllerClient delegate) { public
DomainDeploymentManager getDeploymentManager(); }

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License: they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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##
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treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation details.
 *
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M. Welsh, 6 July 1996

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1.1827 perl-dbi 1.641-
3.module+el8.3.0+6481+fbe55708

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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1.1862 xorg-x11-font-utils 7.5-41.el8

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1.1868 javassist 3.19.0-GA

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Found in path(s):
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformDeleteMembers.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformDeleteMethods.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformDeleteFields.java
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Found in path(s):
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java

1.1869 clutter 1.26.4
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code” for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may...
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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

 - trivial database library - private includes
 -
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<BSD_LIB>

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB)
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** A parser used to break up a single template into chunks, text literals
* and attribute expressions.
*/
class TemplateParser extends Parser;
{

protected StringTemplate self;

public void reportError(RecognitionException e) {
  StringTemplateGroup group = self.getGroup();
  if ( group==StringTemplate.defaultGroup ) {
    self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
  }
  else {
    self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
  }
}

template[StringTemplate self]
{
  this.self = self;
}
  (  s:LITERAL  {self.addChunk(new StringRef(self,s.getText()));}
    |  nl:NEWLINE
      {   if ( LA(1)!=ELSE && LA(1)!=ENDIF ) {
            self.addChunk(new NewlineRef(self,nl.getText()));
        }
        }
    |  action[self]
    )*
;
action[StringTemplate self]
: a:ACTION
{
String indent = ((ChunkToken)a).getIndentation();
ASTExpr c = self.parseAction(a.getText());
c.setIndentation(indent);
self.addChunk(c);
}
| i:IF
{
ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
// create and precompile the subtemplate
StringTemplate subtemplate =
new StringTemplate(self.getGroup(), null);
subtemplate.setEnclosingInstance(self);
subtemplate.setName(i.getText()+"_subtemplate");
self.addChunk(c);
}
template[subtemplate] {if ( c!=null ) c.setSubtemplate(subtemplate);}
( ei:ELSEIF
{
ASTExpr ec = self.parseAction(ei.getText());
// create and precompile the subtemplate
StringTemplate elseIfSubtemplate =
new StringTemplate(self.getGroup(), null);
elseIfSubtemplate.setEnclosingInstance(self);
elseIfSubtemplate.setName(ei.getText()+"_subtemplate");
}
template[elseIfSubtemplate]
{if ( c!=null ) c.addElseIfSubtemplate(ec, elseIfSubtemplate);}
)*
( ELSE
{
// create and precompile the subtemplate
StringTemplate elseSubtemplate =
new StringTemplate(self.getGroup(), null);
elseSubtemplate.setEnclosingInstance(self);
elseSubtemplate.setName("else_subtemplate");
}
template[elseSubtemplate]
{if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}

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ENDIF

|rr:REGION_REF

{
  // define implicit template and
  // convert <@r()> to <region__enclosingTemplate__r()>
  String regionName = rr.getText();
  String mangledRef = null;
  boolean err = false;
  // watch out for <@super.r()>; that does NOT def implicit region
  // convert to <super.region__enclosingTemplate__r()>
  if (regionName.startsWith("super.") ) {
    //System.out.println("super region ref "+regionName);
    StringRef =
    regionName.substring("super.".length(),regionName.length());
    StringTemplate scopeST =
    self.getGroup().lookupTemplate(templateScope);
    if (scopeST==null) {
      self.getGroup().error("reference to region within undefined template: "+
    templateScope);
    err=true;
    } if ( !scopeST.containsRegionName(regionRef) ) {
      self.getGroup().error("template "+templateScope+" has no region called "+
    regionRef);
    err=true;
    } else {
      mangledRef =
      self.getGroup().getMangledRegionName(templateScope,regionRef);
      mangledRef = "super."+mangledRef;
    }
  } else {
    //System.out.println("region ref "+regionName);
    StringTemplate regionST =
    self.getGroup().defineImplicitRegionTemplate(self,regionName);
    mangledRef = regionST.getName();
  }
  if ( !err ) {
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rr).getIndentation();
    ASTExpr c = self.parseAction(mangledRef+"()");
    c.setIndentation(indent);
  }
self.addChunk(c);
}

|rd:REGION_DEF
{
String combinedNameTemplateStr = rd.getText();
int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
if ( indexOfDefSymbol>=1 ) {
    String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
    String template =
        combinedNameTemplateStr.substring(indexOfDefSymbol+3,
            combinedNameTemplateStr.length());
    StringTemplate regionST =
        self.getGroup().defineRegionTemplate(self,
            regionName,
            template,
            StringTemplate.REGION_EMBEDDED);
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rd).getIndentation();
    ASTExpr c = self.parseAction(regionST.getName()+"()");
    c.setIndentation(indent);
    self.addChunk(c);
}
else {
    self.error("embedded region definition screwed up");
}

/** Break up an input text stream into chunks of either plain text
 * or template actions in "$...$". Treat IF and ENDIF tokens
 * specially.
 */
class DefaultTemplateLexer extends Lexer;

options {
    k=7; // see "$endif$
    charVocabulary = '\u0001'..'\uFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='e'&&LA(i+4)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&LA(i+5)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL:
{LA(1)!=''&&LA(1)!='
'}?
( options { generateAmbigWarnings=false; }
{ int loopStartIndex=text.length();
 int col=getColumn();
 }
: '\!' '$' // allow escaped delimiter
| '\!' '\!' // always replace \ with \\
| '\!' '\!' $' // otherwise ignore escape char
| ind:INDENT
|
if ( col==1 && LA(1)=='$' ) {
    // store indent in ASTExpr not in a literal
    currentIndent=ind.getText();
text.setLength(loopStartIndex); // reset length to wack text
} else currentIndent=null;
| ErrorResponse($getText).length()==0) { $setType(Token.SKIP); } // pure indent
| ;
NEWLINE
:('\v')? '\n' {newline(); currentIndent=null;}
;

ACTION
options {
genenerateAmbigWarnings=false; // $EXPR$ is ambig with $!..!$
}
{
  int startCol = getColumn();
}
 : LINE_BREAK {$setType(Token.SKIP);}
    // Match escapes not in a string like <\u0005>
    StringBuffer buf = new StringBuffer(); char uc = 'u0000';
    $! (uc=ESC_CHAR {buf.append(uc); }+)'
    {SetText(buf.toString()); $setType(LITERAL);}
    | COMMENT {$setType(Token.SKIP);}
    | ( options {
genenerateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
    }
    : '!' "if" ( '!' )* "(" IF_EXPR ")" '!' {TokenType(TemplateParser.IF);}
        ( ( 'v')? 'n'! {newline();})? // ignore any newline right after an IF
    | '!' "elseif" ( '!' )* "(" IF_EXPR ")" '!' {TokenType(TemplateParser.ELSEIF);}
        ( ( 'v')? 'n'! {newline();})? // ignore any newline right after an ELSE
    | '!' "else" '!' {TokenType(TemplateParser.ELSE;)
        ( ( 'v')? 'n'! {newline();})? // ignore any newline right after an ELSE
    | '!' "endif" '!' {TokenType(TemplateParser.ENDIF;)
        ( (startCol==1)? ( 'v')? 'n'! {newline();})? // ignore after ENDIF if on line by itself
    | // match $@foo()$ => foo
    // match $@foo...$@end$ => foo:...
    '"'! '!' (\"(\")! \"(\")! {TokenType(TemplateParser.REGION_DEF;)
    | '"'
    {TokenType(TemplateParser.REGION_REF;)
      String t=$getText;
      $setText(t+":"+";);
    }
    ( options {greedy=true;} : ( 'v')? 'n'! {newline();})?

    {boolean atLeft = false;
      ( options {greedy=true;} // handle greedy=false with predicate
       : ![upcomingAtEND(1)||upcomingNewline(1)&&upcomingAtEND(2))]?
       ( ( 'v')? 'n'! {newline(); atLeft = true;}
       [ {atLeft = false;}
     )
   )

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protected
ESC_CHAR returns [char uc='\u0000']
:\"\n\"! {uc = 'n';}
[\"\r\"! {uc = 'r';}
[\"\t\"! {uc = 't';}
["\" ! {uc = ' ';}
[\"\u\" a:HEX! b:HEX! c:HEX! d:HEX! 
{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}
;
protected
ESC : '\.法律规定(''\n'|''\t'|''\t'|''\'|'':'|'{'|'}')
;
protected
HEX: '0'.9][A'.F][a'.f]
;
protected
SUBTEMPLATE
 : '{' (SUBTEMPLATE|ESC|~'}')* '}'
;
protected
NESTED_PARENS
 : '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')'
;
protected
INDENT
 : ( options {greedy=true;}: '' | ''\t')+ 
;
protected
COMMENT
{
    int startCol = getColumn();
}
 : "$!"
    (options {greedy=false;}
       :(\r)? 'n' {newline();}
       |
       )*
"\$" ( {startCol==1}? (\r)? 'n' {newline();} )?
;
protected

LINE_BREAK

: "$$\$$" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?

;

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
jar/org/antlr/stringtemplate/language/template.g

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
jar/org/antlr/stringtemplate/language/action.g
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
jar/org/antlr/stringtemplate/language/eval.g

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match an ST group interface. Just a list of template names with args.
* Here is a sample interface file:
* *
*interface nfa;
*nfa(states,edges);
*optional state(name);
*/
class InterfaceParser extends Parser;

options {
  k=3;
}

protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
  if ( groupI==null ) {
    groupI.error("template group interface parse error", e);
  }
}
else {
    System.err.println("template group interface parse error: "+e);
    e.printStackTrace(System.err);
}
}


groupInterface[StringTemplateGroupInterface groupI]
{this.groupI = groupI;}
:"interface" name:ID {groupI.setName(name.getText());} SEMI
    ( template[groupI ]+)  ;

template[StringTemplateGroupInterface groupI]
{
    LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
    String templateName=null;
}
:(opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
    { templateName = name.getText();
    groupI.defineTemplate(templateName, formalArgs, opt!=null);
    }
    ;

args returns [LinkedHashMap args=new LinkedHashMap()]
    :a:ID {args.put(a.getText(), new FormalArgument(a.getText()));}
    ( COMMA b:ID {args.put(b.getText(), new FormalArgument(b.getText()));} )* 
    ;

class InterfaceLexer extends Lexer;

options {
    k=2;
    charVocabulary = ' '..'\uFFFF';
}

ID:('a'..'z'|'A'..'Z'|_') ('a'..'z'|'A'..'Z'|'0'..'9'|_')* 

;

LPAREN: '(' ;
RPAREN: ')';
COMMA: ',';
SEMI: ':';
COLON: ':';
// Single-line comments
SL_COMMENT
: "//"
   (\n   | (\r)? \n )? { $setType(Token.SKIP); newline(); } ;

// multiple-line comments
ML_COMMENT
: "/*"
   ( options {
     greedy=false;
   } : (\r)? \n )? {newline(); } | .
   "*/" {$setType(Token.SKIP);}
;

// Whitespace -- ignored
WS  : (   ' ' |
          \t |
          \f |
          (\r)? \n   { newline(); } )+
   { $setType(Token.SKIP); }
;

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** Break up an input text stream into chunks of either plain text
 * or template actions in "<...>". Treat IF and ENDIF tokens
 * specially.
 */
class AngleBracketTemplateLexer extends Lexer;

options {
    importVocab=TemplateParser;
    k=7; // see "<endif>"
    charVocabulary = '\u0001'..'uFFFF';
}

protected String currentIndent = null;
protected StringTemplate self;

public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
 LA(i+5)=='('>;
}
protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
            LA(i+5)=='f'&&LA(i+6)=='>';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='>';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL
    :   {LA(1)!=''&&LA(1)!='
'}?
        ( options { generateAmbigWarnings=false; }
            
            int loopStartIndex=text.length();
            int col=getColumn();
            }
        :   '\'! '<'  // allow escaped delimiter
            |   '\'! '>'
            |   '\'! '\' // always replace \ with \
            |   '\' ~( '<' | '>' )   // otherwise ignore escape char
            |   ind:INDENT
            
            if ( col==1 && LA(1)=='<' ) {
                // store indent in ASTExpr not in a literal
                currentIndent=ind.getText();
                text.setLength(loopStartIndex); // reset length to wack text
            } else currentIndent=null;
            
            |   ~( '<' | '\r' | '\n')
            )+
        {if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
    ;

protected
INDENT
    :   ( options {greedy=true;}: ' ' | '	')+
    ;

NEWLINE
    :   ('\r')? '\n' {newline(); currentIndent=null;}
    ;
ACTION

options {
    generateAmbigWarnings=false; // <EXPR> is ambig with <!..!>
}
{
    int startCol = getColumn();
}
:
LINE_BREAK {$setType(Token.SKIP);}
| // Match escapes not in a string like <\n\ufeaf5>
{StringBuffer buf = new StringBuffer(); char uc = '\u0000';}
'<'! (uc=ESC_CHAR {buf.append(uc);} )+>'!
{SetText(buf.toString()); $setType(LITERAL);}
| COMMENT    {$setType(Token.SKIP);}
| (options {
    generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
})
:<!' "if" (' '!)* "(" IF_EXPR ")" ')!' {SetText(TemplateParser.IF);}
    ( '\n')? '\n'! {newline();} // ignore any newline right after an IF
|'<!' "elseif" (' '!)* "(" IF_EXPR ")" ')!' {SetText(TemplateParser.ELSEIF);}
    ( '\n')? '\n'! {newline();} // ignore any newline right after an IF
|'<!' "else" ')!' {SetText(TemplateParser.ELSE);}
    ( '\n')? '\n'! {newline();} // ignore any newline right after an ELSE
|'<!' "endif" ')!' {SetText(TemplateParser.ENDIF);}
    ( {startCol==1}? ('\n')? '\n'! {newline();})? // ignore after ENDIF if on line by itself
| // match <@foo()> => foo
// match <@foo>...<@end> => foo::=...
    '<!' '@'! (~('>'|'(') +( ('(')! '>'! {$setType(TemplateParser.REGION_REF);}
| '>'! {SetText(TemplateParser.REGION_DEF);
    String t=$getText;
    $setText(t+"::=");
})
| (boolean atLeft = false;)
( options {greedy=true;} : ('\n')? '\n'! {newline();})?
$setType(TemplateParser REGION_DEF);
String t=$getText;
SetText(t+"::=");
)
( options {greedy=true;} // handle greedy=false with predicate
  :(![upcomingAtEND(1)]([upcomingNewline(1)&&upcomingAtEND(2))])?
( ('\n')? '\n'! {newline(); atLeft = true;}
]. {atLeft = false;}
) )
|+ ( ('\n')? '\n'! {newline(); atLeft = true; })?
protected
ESC_CHAR returns [char uc='\u0000']
:\"\n! {uc = 'n'}
|\"\r! {uc = 'r'}
|\"\t! {uc = 't'}
|\"\! {uc = ' '}
|\"a:HEX! b:HEX! c:HEX! d:HEX!
{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}
;

// just used to skip stuff (not part of unicode escape stuff)
protected
ESC : \. // ('<'|'>'|'n'|'t'|'"'|'\'|'{:|'}|'\')\n
;

protected
HEX: '0'..'9'|'A'..'F'|'a'..'f'
;

protected
SUBTEMPLATE
: '{' (SUBTEMPLATE|ESC|~'})* '}'
;

protected
NESTED_PARENS
: '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')'
;

protected
COMMENT
{
    int startCol = getColumn();
}
: "<!"
(options {greedy=false;}
:('\r')? 'n' {newline();}
|.
)*
"!" ( {startCol==1}? ('\r')? 'n' {newline();} )?
;

protected
LINE_BREAK
: "<!--" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?
;

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/angle_bracket.template.g

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match a group of template definitions beginning
  * with a group name declaration. Templates are enclosed
  * in double-quotes or <<...>> quotes for multi-line templates.
  * Template names have arg lists that indicate the cardinality
  * of the attribute: present, optional, zero-or-more, one-or-more.
  * Here is a sample group file:

  group nfa;

  // an NFA has edges and states
  nfa(states,edges) ::= <<
digraph NFA {
    rankdir=LR;
    <states; separator="\n">
    <edges; separator="\n">
    }

state(name) ::= "node [shape = circle]; <name>;"

class GroupParser extends Parser;

options {
    k=3;
}

protected StringTemplateGroup group;

public void reportError(RecognitionException e) {
    if (group!=null) {
        group.error("template group parse error", e);
    } else {
        System.err.println("template group parse error: "+e);
        e.printStackTrace(System.err);
    }
}

group[StringTemplateGroup g]
{
    this.group = g;
}
:"group" name:ID {g.setName(name.getText());}
( COLON s:ID {g.setSuperGroup(s.getText());})? 
    ( "implements" i:ID {g.implementInterface(i.getText());}
    (COMMA i2:ID {g.implementInterface(i2.getText());})* 
    )? 
    SEMI 
    ( template[g] | mapdef[g] )+
    ;

template[StringTemplateGroup g]
{
    Map formalArgs = null;
    StringTemplate st = null;
    boolean ignore = false;
String templateName=null;
int line = LT(1).getLine();
}
(AT scope:ID DOT region:ID
 {
 templateName=g.getMangledRegionName(scope.getText(),region.getText());
     if ( g.isDefinedInThisGroup(templateName) ) {
         g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+
scope.getText()+"."+region.getText());

         st = new StringTemplate(); // create bogus template to fill in
     }
     else { // @template.region() ::= "..."
         StringTemplate scopeST = g.lookupTemplate(scope.getText());
         if ( scopeST==null ) {
             g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+
scope.getText());
             err=true;
         }
         else {
             st = g.defineRegionTemplate(scope.getText(),
region.getText(),
null,
StringTemplate.REGION_EXPLICIT);
         }
     }
     [name:ID {templateName = name.getText();}]
 }
)

{name:ID {templateName = name.getText();}
 }
if ( g.isDefinedInThisGroup(templateName) ) {
    g.error("redefinition of template: "+templateName);
    st = new StringTemplate(); // create bogus template to fill in
}
else {
    st = g.defineTemplate(templateName, null);
 }
}
if ( st!=null ) {st.setGroupFileLine(line);}
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 19098

LPAREN
  (args[st]|(st.defineEmptyFormalArgumentList();))
RPAREN

DEFINED_TO_BE
(t:STRING {st.setTemplate(t.getText());}
|bt:BIGSTRING {st.setTemplate(bt.getText());}
)

| alias:ID DEFINED_TO_BE target:ID
  {g.defineTemplateAlias(alias.getText(), target.getText());}
;
args[StringTemplate st]
  :arg[st] ( COMMA arg[st] )*
;
arg[StringTemplate st]
  {StringTemplate defaultValue = null;
  }
  :name:ID
  (ASSIGN s:STRING
  {defaultValue=new StringTemplate("$_val_$");
  defaultValue.setAttribute("_val_", s.getText());
  defaultValue.defineFormalArgument("_val_");
  defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
  }
  |ASSIGN bs:ANONYMOUS_TEMPLATE
  {defaultValue=new StringTemplate(st.getGroup(), bs.getText());
  defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
  }
  )?
  {st.defineFormalArgument(name.getText(), defaultValue);}
  ;
/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
  : OPTIONAL {cardinality=FormalArgument.OPTIONAL;}
  | STAR     {cardinality=FormalArgument.ZERO_OR_MORE;}
  | PLUS     {cardinality=FormalArgument.ONE_OR_MORE;}
  |
  ;
*/

mapdef[StringTemplateGroup g]
{
Map m=null;
}
:name:ID
  DEFINED_TO_BE m=map
  {
    if ( g.getMap(name.getText())!=null ) {
      g.error("redefinition of map: "+name.getText());
    }
    else if ( g.isDefinedInThisGroup(name.getText()) ) {
      g.error("redefinition of template as map: "+name.getText());
    }
    else {
      g.defineMap(name.getText(), m);
    }
  }

map returns [Map mapping=new HashMap()]
: LBRACK mapPairs[map] RBRACK
:

mapPairs [Map mapping]
  : keyValuePair[map] (COMMA keyValuePair[map])* 
    (COMMA defaultValuePair[map])? 
    | defaultValuePair[map]
  :

defaultValuePair[Map mapping]
  {
    StringTemplate v = null;
  }
  :"default" COLON v=keyValue 
    {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);}
  :

keyValuePair[Map mapping]
  {
    StringTemplate v = null;
  }
  :key:STRING COLON v=keyValue {mapping.put(key.getText(), v);}
  :

keyValue returns [StringTemplate value=null]
:s1:BIGSTRING{value = new StringTemplate(group,s1.getText());}
[s2:STRING{value = new StringTemplate(group,s2.getText());}
[k:ID{k.getText().equals("key")}? 
  {value = ASTExpr.MAP_KEY_VALUE;}
[|value = null;]
class GroupLexer extends Lexer;

options {
  k=2;
  charVocabulary =  ..\uFFFE;
  testLiterals=false;
}

ID
  options {
    testLiterals=true;
  }
  :(\w|[^\w])+(\w|[^\w])*;

STRING
  :"""!(\\"""" | """"~"""" | ~"""" )*""""!

BIGSTRING
  :""<<!
    (options {greedy=true;}:(\r)?\n{newline();})? // consume 1st \n
    (options {greedy=false;}) // stop when you see the >>
    :{LA(3)=='>'&LA(4)='>'}? \r\n{newline();} // kill last \n
    [LA(2)='>'&LA(3)='>']? \n{newline();} // kill last \n
    [\(\r\)\n{newline();} // else keep

    [\w!>'] // escape
|
  )*
     ">>"!

ANONYMOUS_TEMPLATE

  {List args=null;
    StringTemplateToken t = null;
  }
  :'{!
    (options {greedy=false;}) // stop when you see the >>
    :(\r)?\n{newline();} // else keep

    [\w!'] // escape
|
  }!

;
1.1892 rpm 4.14.3-19.el8_5.2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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from a designated place, then offering equivalent access to copy the
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functions (ten lines or less in length), then the use of the object
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
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1.1893 sound-theme-freedesktop 0.8-9.el8

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* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/tlv/ScriptFreeTLV.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/core/LoopTag.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/core/ConditionalTagSupport.java
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* /opt/ cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/tlv/PermittedTaglibsTLV.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/fmt/LocalizationContext.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/core/LoopTagStatus.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/sql/Result.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/core/LoopTagSupport.java
* /opt/cola/permits/1000764943_1646171502.39/0/jstl-1-1-2-sources-jar/javax/servlet/jsp/jstl/sql/ResultSupport.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources.jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources.jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources.jar/javax/validation/TraversableResolver.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/MethodDescriptor.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/groups/ConvertGroup.java

1.1914 keyutils 1.5.10-9.el8
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Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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1.1933 gtk 3.22.30-8.el8

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   * Whom: Steve Mertz <steve@dragon-ware.com>
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1.1939 xfsprogs 5.0.0-9.el8

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1.1942 libpsl 0.20.2 6.el8

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1.1943 tracker 2.1.5-1.el8

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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b) Use a suitable shared library mechanism for linking with the
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1.1949 spc-go-log 0.0.0-20210409014304-ce6a6f3602dc

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1.1950 jboss-modules 1.3.0.Final-redhat-2

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1.1951 xdg-desktop-portal-gtk 1.6.0-1.el8

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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=

=head1 NAME

IO::Socket::INET - Object interface for AF_INET domain sockets

=head1 SYNOPSIS

use IO::Socket::INET;

=head1 DESCRIPTION

C<IO::Socket::INET> provides an object interface to creating and using sockets
in the AF_INET domain. It is built upon the C<IO::Socket> interface and
inherits all the methods defined by C<IO::Socket>.

=head1 CONSTRUCTOR

=over 4

=item new ( [ARGS] )

Creates an C<IO::Socket::INET> object, which is a reference to a
newly created symbol (see the C<Symbol> package). C<new>
optionally takes arguments, these arguments are in key-value pairs.

In addition to the key-value pairs accepted by C<IO::Socket>,
C<IO::Socket::INET> provides.

  PeerAddr    Remote host address    <hostname>[<port>]
  PeerHost    Synonym for PeerAddr  <service>[<no>][<no>]
  PeerPort    Remote port or service <service>[<no>]
  LocalAddr   Local host bind address hostname[:port]
LocalHost   Synonym for LocalAddr
LocalPort   Local host bind port   <service>[(<no>)] | <no>
Proto       Protocol name (or number)   "tcp" | "udp" | ...
Type        Socket type             SOCK_STREAM | SOCK_DGRAM | ...
Listen      Queue size for listen
ReuseAddr   Set SO_REUSEADDR before binding
Reuse       Set SO_REUSEADDR before binding (deprecated, prefer ReuseAddr)
ReusePort   Set SO_REUSEPORT before binding
Broadcast   Set SO_BROADCAST before binding
Timeout     Timeout value for various operations
MultiHomed  Try all addresses for multi-homed hosts
Blocking    Determine if connection will be blocking mode

If C<Listen> is defined then a listen socket is created, else if the
socket type, which is derived from the protocol, is SOCK_STREAM then
connect() is called. If the C<Listen> argument is given, but false,
the queue size will be set to 5.

Although it is not illegal, the use of C<MultiHomed> on a socket
which is in non-blocking mode is of little use. This is because the
first connect will never fail with a timeout as the connect call
will not block.

The C<PeerAddr> can be a hostname or the IP-address on the
"xx.xx.xx.xx" form. The C<PeerPort> can be a number or a symbolic
service name. The service name might be followed by a number in
parenthesis which is used if the service is not known by the system.
The C<PeerPort> specification can also be embedded in the C<PeerAddr>
by preceding it with a ":".

If C<Proto> is not given and you specify a symbolic C<PeerPort> port,
then the constructor will try to derive C<Proto> from the service
name. As a last resort C<Proto> "tcp" is assumed. The C>Type
parameter will be deduced from C<Proto> if not specified.

If the constructor is only passed a single argument, it is assumed to
be a C<PeerAddr> specification.

If C<Blocking> is set to 0, the connection will be in nonblocking mode.
If not specified it defaults to 1 (blocking mode).

Examples:

   $sock = IO::Socket::INET->new(PeerAddr => 'www.perl.org',
                                PeerPort => 'http(80)',
                                Proto     => 'tcp');
$sock = IO::Socket::INET->new(PeerAddr => 'localhost:smtp(25)');

$sock = IO::Socket::INET->new(Listen => 5,
    LocalAddr => 'localhost',
    LocalPort => 9000,
    Proto => 'tcp');

$sock = IO::Socket::INET->new('127.0.0.1:25');

$sock = IO::Socket::INET->new(
    PeerPort => 9999,
    PeerAddr => inet_ntoa(INADDR_BROADCAST),
    Proto => udp,
    LocalAddr => 'localhost',
    Broadcast => 1 )
or die "Can't bind: $@
";

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE
As of VERSION 1.18 all IO::Socket objects have autoflush turned on
by default. This was not the case with earlier releases.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

=back
=head2 METHODS
=over 4
=item sockaddr ()
Return the address part of the sockaddr structure for the socket

=item sockport ()
Return the port number that the socket is using on the local host

=item sockhost ()
Return the address part of the sockaddr structure for the socket in a
text form xx.xx.xx.xx

=item peeraddr ()
Return the address part of the sockaddr structure for the socket on
the peer host
Return the port number for the socket on the peer host.

Return the address part of the sockaddr structure for the socket on the peer host in a text form xx.xx.xx.xx

See Also

L<Socket>, L<IO::Socket>

Author

Graham Barr. Currently maintained by the Perl Porters. Please report all bugs to <perlbug@perl.org>.

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NAME

IO::Socket::UNIX - Object interface for AF_UNIX domain sockets

SYNOPSIS

use IO::Socket::UNIX;

my $SOCK_PATH = "$ENV{HOME}/unix-domain-socket-test.sock";

# Server:
my $server = IO::Socket::UNIX->new(
```perl
Type => SOCK_STREAM(),
Local => $SOCK_PATH,
Listen => 1,
);

my $count = 1;
while (my $conn = $server->accept()) {
    $conn->print("Hello ". ($count++) . "\n");
}

# Client:
my $client = IO::Socket::UNIX->new(  
    Type => SOCK_STREAM(),
    Peer => $SOCK_PATH,
);

# Now read and write from $client

=head1 DESCRIPTION

C<IO::Socket::UNIX> provides an object interface to creating and using sockets in the AF_UNIX domain. It is built upon the L<IO::Socket> interface and inherits all the methods defined by L<IO::Socket>.

=head1 CONSTRUCTOR

=over 4

=item new ( [ARGS] )

Creates an C<IO::Socket::UNIX> object, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs.

In addition to the key-value pairs accepted by L<IO::Socket>, C<IO::Socket::UNIX> provides.

    Type    Type of socket (eg SOCK_STREAM or SOCK_DGRAM)
    Local   Path to local fifo
    Peer    Path to peer fifo
    Listen  Queue size for listen

If the constructor is only passed a single argument, it is assumed to be a C<Peer> specification.

If the C<Listen> argument is given, but false, the queue size will be set to 5.
=back
```
METHODS

- hostpath()
  Returns the pathname to the fifo at the local end

- peerpath()
  Returns the pathname to the fifo at the peer end

SEE ALSO

L<Socket>, L<IO::Socket>

AUTHOR

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=head1 NAME

IO::Socket - Object interface to socket communications
=head1 SYNOPSIS

use IO::Socket;

=head1 DESCRIPTION

C<IO::Socket> provides an object interface to creating and using sockets. It
is built upon the L<IO::Handle> interface and inherits all the methods defined
by L<IO::Handle>.

C<IO::Socket> only defines methods for those operations which are common to all
types of socket. Operations which are specified to a socket in a particular
domain have methods defined in sub classes of C<IO::Socket>

C<IO::Socket> will export all functions (and constants) defined by L<Socket>.

=head1 CONSTRUCTOR

=over 4

=item new ( [ARGS] )

Creates an C<IO::Socket>, which is a reference to a
newly created symbol (see the C<Symbol> package). C<new>
optionally takes arguments, these arguments are in key-value pairs.
C<new> only looks for one key C<Domain> which tells new which domain
the socket will be in. All other arguments will be passed to the
configuration method of the package for that domain, See below.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

As of VERSION 1.18 all IO::Socket objects have autoflush turned on
by default. This was not the case with earlier releases.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

=back

=head1 METHODS

See L<perlfunc> for complete descriptions of each of the following
supported C<IO::Socket> methods, which are just front ends for the corresponding built-in functions:

    socket
    socketpair
    bind
    listen
    accept
    send
    recv
    peername (getpeername)
    sockname (getsockname)
    shutdown

Some methods take slightly different arguments to those defined in L<perlfunc> in attempt to make the interface more flexible. These are

=over 4

=item accept([PKG])

perform the system call C<accept> on the socket and return a new object. The new object will be created in the same class as the listen socket, unless C<PKG> is specified. This object can be used to communicate with the client that was trying to connect.

In a scalar context the new socket is returned, or undef upon failure. In a list context a two-element array is returned containing the new socket and the peer address; the list will be empty upon failure.

The timeout in the [PKG] can be specified as zero to effect a "poll", but you shouldn't do that because a new IO::Select object will be created behind the scenes just to do the single poll. This is horrendously inefficient. Use rather true select() with a zero timeout on the handle, or non-blocking IO.

=item socketpair(DOMAIN, TYPE, PROTOCOL)

Call C<socketpair> and return a list of two sockets created, or an empty list on failure.

=back

Additional methods that are provided are:

=over 4
use IO::Socket;

my $sock = IO::Socket::INET->new('some_server');
$sock->read($data, 1024) until $sock->atmark;

Note: this is a reasonably new addition to the family of socket functions, so all systems may not support this yet. If it is unsupported by the system, an attempt to use this method will abort the program.

The atmark() functionality is also exportable as sockatmark() function:

use IO::Socket 'sockatmark';

This allows for a more traditional use of sockatmark() as a procedural socket function. If your system does not support sockatmark(), the C<use> declaration will fail at compile time.

==item connected

If the socket is in a connected state, the peer address is returned. If the socket is not in a connected state, undef is returned.

Note that connected() considers a half-open TCP socket to be "in a connected state". Specifically, connected() does not distinguish between the B<ESTABLISHED> and B<CLOSE-WAIT> TCP states; it returns the peer address, rather than undef, in either case. Thus, in general, connected() cannot be used to reliably learn whether the peer has initiated a graceful shutdown because in most cases (see below) the local TCP state machine remains in B<CLOSE-WAIT> until the local application calls shutdown() or close(); only at that point does connected() return undef.

The "in most cases" hedge is because local TCP state machine behavior may depend on the peer's socket options. In particular, if the peer socket has SO_LINGER enabled with a zero timeout, then the peer's close() will generate a RST segment, upon receipt of which the local TCP transitions immediately to B<CLOSED>, and in that state, connected() will return undef.

==item protocol

Returns the numerical number for the protocol being used on the socket, if known. If the protocol is unknown, as with an AF_UNIX socket, zero is returned.
=item sockdomain

Returns the numerical number for the socket domain type. For example, for an AF_INET socket the value of &AF_INET will be returned.

=item sockopt(OPT [, VAL])

Unified method to both set and get options in the SOL_SOCKET level. If called with one argument then getsockopt is called, otherwise setsockopt is called.

=item getsockopt(LEVEL, OPT)

Get option associated with the socket. Other levels than SOL_SOCKET may be specified here.

=item setsockopt(LEVEL, OPT, VAL)

Set option associated with the socket. Other levels than SOL_SOCKET may be specified here.

=item socktype

Returns the numerical number for the socket type. For example, for a SOCK_STREAM socket the value of &SOCK_STREAM will be returned.

=item timeout([VAL])

Set or get the timeout value (in seconds) associated with this socket. If called without any arguments then the current setting is returned. If called with an argument the current setting is changed and the previous value returned.

=back

=head1 LIMITATIONS

On some systems, for an IO::Socket object created with new_from_fd(), or created with accept() from such an object, the protocol(), sockdomain() and socktype() methods may return undef.

=head1 SEE ALSO

L<Socket>, L<IO::Handle>, L<IO::Socket::INET>, L<IO::Socket::UNIX>

=head1 AUTHOR

Graham Barr. atmark() by Lincoln Stein. Currently maintained by the
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* /opt/cola/permits/1244677656_1652680089.837031/0/perl-IO-1.38-420.el8.x86_64.src.rpm-cosi-expand-archive-0nagQet4/usr/lib64/perl5/IO/Socket.pm
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=head1 NAME

IO::Dir - supply object methods for directory handles

=head1 SYNOPSIS

use IO::Dir;
$d = IO::Dir->new(".");
if (defined $d) {
    while (defined($_ = $d->read)) { something($_); } 
    $d->rewind;
    while (defined($_ = $d->read)) { something_else($_); }  
    undef $d;
}

tie %dir, 'IO::Dir', ".";
foreach (keys %dir) { 
    print $_, " ", $dir{$_}->size,"\n";
}

=head1 DESCRIPTION

The C<IO::Dir> package provides two interfaces to Perl's directory reading
routines.
The first interface is an object approach. C<IO::Dir> provides an object constructor and methods, which are just wrappers around perl's built in directory reading routines.

=item new ( [ DIRNAME ] )

C<new> is the constructor for C<IO::Dir> objects. It accepts one optional argument which, if given, C<new> will pass to C<open>

=back

The following methods are wrappers for the directory related functions built into perl (the trailing 'dir' has been removed from the names). See L<perlfunc> for details of these functions.

=item open ( DIRNAME )

=item read ()

=item seek ( POS )

=item tell ()

=item rewind ()

=item close ()

=back

C<IO::Dir> also provides an interface to reading directories via a tied hash. The tied hash extends the interface beyond just the directory reading routines by the use of C<lstat>, from the C<File::stat> package, C<unlink>, C<rmdir> and C<utime>.

=item tie %hash, 'IO::Dir', DIRNAME [, OPTIONS ]

=back

The keys of the hash will be the names of the entries in the directory. Reading a value from the hash will be the result of calling C<File::stat::lstat>. Deleting an element from the hash will delete the corresponding file or subdirectory,
provided that C<DIR_UNLINK> is included in the C<OPTIONS>.

Assigning to an entry in the hash will cause the time stamps of the file
to be modified. If the file does not exist then it will be created. Assigning
a single integer to a hash element will cause both the access and
modification times to be changed to that value. Alternatively a reference to
an array of two values can be passed. The first array element will be used to
set the access time and the second element will be used to set the modification
time.

=head1 SEE ALSO

L<File::stat>

=head1 AUTHOR

Graham Barr. Currently maintained by the Perl Porters. Please report all
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protected boolean isConfidentialTransportGuarantee(final Deployment dep, final Endpoint ep) return "CONFIDENTIAL".equals(transportGuarantee); public Integer getValue(boolean confidential) {
    return confidential ? getSecurePortValue() : getPortValue();
}

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[This is the first released version of the library GPL. It is
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Preamble

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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
    context  formatter.Context
    expected string
}
// Errors
{
    formatter.Context{Format: "{{InvalidFunction}}"},
    "Template parsing error: template: line 1: function "InvalidFunction" not defined",
}
// Table format

formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM     OWNER     PRODUCT ID       EXPIRES                      PRICING COMPONENTS
1        owner1   productid1      2020-01-01 10:00:00 +0000 UTC  compstring
2        owner2   productid2      2020-01-01 10:00:00 +0000 UTC  compstring
`

formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`

formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`

formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`

// Raw Format

`license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
`

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 19720
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, 
    Owner: "owner1", 
    Subscription: model.Subscription{
        ID: "id1", 
        Name: "name1", 
        ProductID: "productid1", 
        Expires: &expiration, 
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes", 
                Value: 10, 
            }, 
        }, 
        ComponentsString: "compstring", 
    }, 
    {Num: 2, 
    Owner: "owner2", 
    Subscription: model.Subscription{
        ID: "id2", 
        Name: "name2", 
        ProductID: "productid2", 
        Expires: &expiration, 
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes", 
                Value: 20, 
            }, 
        }, 
        ComponentsString: "compstring", 
    },
}
ComponentsString: "compstring",
}
}
}
}
}

out := bytes.Buffer{}
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{
Num:  1,
Owner: "owner1",
Subscription: model.Subscription{
ID:    "id1",
Name:  "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name:  "nodes",
Value:  10,
},
},
},
ComponentsString: "compstring",
},
{
Num:  2,
Owner: "owner2",
Subscription: model.Subscription{
ID:    "id2",
Name:  "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name:  "nodes",
}}
}
Value: 20,
},
},
ComponentsString: "compstring",
},
expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": ""
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
}

out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), 
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), 
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf(`/api/billing/v4/subscriptions/%s/license-file`, subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }
    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }
    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }
    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }
    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {

return false, "empty key_id"
}

if l.PrivateKey == "" {
return false, "empty private_key"
}

if l.Authorization == "" {
return false, "empty authorization"
}

return true, ""
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricinComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
switch source {
  case formatter.TableFormatKey:
    if quiet {
      return defaultSubscriptionsQuietFormat
    }
    return defaultSubscriptionsTableFormat
  case formatter.RawFormatKey:
    if quiet {
      return `license: {{.ID}}`
    }
    return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
licenseutils.LicenseDisplay

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.Summary()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {

return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
return c.l.Expires
}

func (c *licenseContext) State() string {
return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
if spc == nil {
continue
}
ret = append(ret, *spc)
}
return ret
}

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1.1975 yamlbeans 1.09

1.1976 log4j-web 2.17.0
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1.1980 jboss-connector-api 1.0.1.Final

1.1981 mesa 21.1.5-1.el8
1.1981.1 Available under license :
libfreedreno_layout = static_library('freedreno_layout',
    [  
    'fd5_layout.c',  
    'fd6_layout.c',  
    'freedreno_layout.c',  
    ],
    include_directories=[inc_freepreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args=[no_override_init_args],
    gnu_symbol_visibility='hidden',
    dependencies=[idep_nir_headers, idep_mesautil],
    build_by_default=false,
)

foreach major: ['5', '6']
    test(
        'fd' + major + '_layout',
        executable(
            'fd' + major + '_layout',
            [
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!
Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
the technique Jimenez's MLAA in the config options of Mesa. We did that
just to allow them to solve license issues. This exception should be for
the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of
license complications. Hope current one is good for Fedora, if not
please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,
Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==

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1.1982 fuse 3.2.1-12.el8
1.1982.1 Available under license :

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1.1985 libxkbcommon 0.9.1 1.el8

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1.1986 kerberos 1.18.2-14.el8

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```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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```
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
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1.1997 libsgutils 1.44-5.el8

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1.1998 python-idna 2.5 5.el8

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---
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
---

import io, sys
from setuptools import setup

version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
'description': 'Internationalized Domain Names in Applications (IDNA)',
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
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    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
]

setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/ws_local/PERMITS_SQL/1018810534_1591381484.40/python-idna-2.5-5.el8.src.rpm-cosi-expand-archive-x48w3eme/idna-2.5.tar.gz-cosi-expand-archive-XsxtdB65/idna-2.5/setup.py
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1.1999 libvncserver 0.9.11-17.el8

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include/input.js
include/jsunzip.js
include/keysym.js
include/logo.js
include/rfb.js
include/ui.js
include/util.js
include/vnc.js
include/websock.js
include/webutil.js

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1.2000 virt-what 1.18-12.el8

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author:
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  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
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meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Digest-MD5
no_index:
  directory:
    - t
    - inc
requires:
  Digest::base: '1.00'
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resources:
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1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem.
The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm [1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

md5 OBJECT IDENTIFIER ::=  iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5

In the X.509 type AlgorithmIdentifier [3], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.
Let $x_i$ denote "x sub i". If the subscript is an expression, we surround it in braces, as in $x_{[i+1]}$. Similarly, we use $^\wedge$ for superscripts (exponentiation), so that $x^{i}$ denotes x to the i-th power.

Let the symbol "+" denote addition of words (i.e., modulo-$2^{32}$ addition). Let $X <<< s$ denote the 32-bit value obtained by circularly shifting (rotating) X left by s bit positions. Let not(X) denote the bit-wise complement of X, and let $X v Y$ denote the bit-wise OR of X and Y. Let $X xor Y$ denote the bit-wise XOR of X and Y, and let $XY$ denote the bit-wise AND of X and Y.

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3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that we wish to find its message digest. Here b is an arbitrary nonnegative integer; b may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the message written down as follows:

$$m_0 \ m_1 \ ... \ m_{[b-1]}$$

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length
A 64-bit representation of b (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that b is greater than \(2^{64}\), then only the low-order 64 bits of b are used. (These bits are appended as two 32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let \(M[0 \ldots N-1]\) denote the words of the resulting message, where N is a multiple of 16.

3.3 Step 3. Initialize MD Buffer

A four-word buffer (A,B,C,D) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):

- word A: 01 23 45 67
- word B: 89 ab cd ef
- word C: fe dc ba 98
- word D: 76 54 32 10

3.4 Step 4. Process Message in 16-Word Blocks

We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

\[
\begin{align*}
F(X,Y,Z) &= XY \lor \neg(X) \ Z \\
G(X,Y,Z) &= XZ \lor Y \neg(Z) \\
H(X,Y,Z) &= X \oplus Y \oplus Z \\
I(X,Y,Z) &= Y \oplus (X \oplus \neg(Z))
\end{align*}
\]

In each bit position F acts as a conditional: if X then Y else Z. The function F could have been defined using + instead of \(\lor\) since XY and \(\neg(X)Z\) will never have 1’s in the same bit position. It is interesting to note that if the bits of X, Y, and Z are independent
and unbiased, the each bit of F(X,Y,Z) will be independent and unbiased.

The functions G, H, and I are similar to the function F, in that they act in "bitwise parallel" to produce their output from the bits of X, Y, and Z, in such a manner that if the corresponding bits of X, Y, and Z are independent and unbiased, then each bit of G(X,Y,Z), H(X,Y,Z), and I(X,Y,Z) will be independent and unbiased. Note that the function H is the bit-wise "xor" or "parity" function of its inputs.

This step uses a 64-element table T[1 ... 64] constructed from the sine function. Let T[i] denote the i-th element of the table, which is equal to the integer part of 4294967296 times abs(sin(i)), where i is in radians. The elements of the table are given in the appendix.

Do the following:

/* Process each 16-word block. */
For i = 0 to N/16-1 do

/* Copy block i into X. */
For j = 0 to 15 do
    Set X[j] to M[i*16+j].
end /* of loop on j */

/* Save A as AA, B as BB, C as CC, and D as DD. */
AA = A
BB = B

CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD 0  7  1] [DABC 1 12  2] [CDAB 2 17  3] [BCDA 3 22  4]
[ABCD 4  7  5] [DABC 5 12  6] [CDAB 6 17  7] [BCDA 7 22  8]
[ABCD 8  7  9] [DABC 9 12 10] [CDAB 10 17 11] [BCDA 11 22 12]
[ABCD 12  7 13] [DABC 13 12 14] [CDAB 14 17 15] [BCDA 15 22 16]
/* Round 2. */
/* Let \[abcd k s i\] denote the operation
\[a = b + ((a + G(b,c,d) + X[k] + T[i]) \ll s). */
/* Do the following 16 operations. */
[ABCD 1 5 17] [DABC 6 9 18] [CDAB 11 14 19] [BCDA 0 20 20]
[ABCD 5 5 21] [DABC 10 9 22] [CDAB 15 14 23] [BCDA 4 20 24]
[ABCD 9 5 25] [DABC 14 9 26] [CDAB 3 14 27] [BCDA 8 20 28]
[ABCD 13 5 29] [DABC 2 9 30] [CDAB 7 14 31] [BCDA 12 20 32]

/* Round 3. */
/* Let \[abcd k s t\] denote the operation
\[a = b + ((a + H(b,c,d) + X[k] + T[i]) \ll s). */
/* Do the following 16 operations. */
[ABCD 5 4 33] [DABC 8 11 34] [CDAB 11 16 35] [BCDA 14 23 36]
[ABCD 1 4 37] [DABC 4 11 38] [CDAB 7 16 39] [BCDA 10 23 40]
[ABCD 13 4 41] [DABC 0 11 42] [CDAB 3 16 43] [BCDA 6 23 44]
[ABCD 9 4 45] [DABC 12 11 46] [CDAB 15 16 47] [BCDA 2 23 48]

/* Round 4. */
/* Let \[abcd k s t\] denote the operation
\[a = b + ((a + I(b,c,d) + X[k] + T[i]) \ll s). */
/* Do the following 16 operations. */
[ABCD 0 6 49] [DABC 7 10 50] [CDAB 14 15 51] [BCDA 5 21 52]
[ABCD 12 6 53] [DABC 3 10 54] [CDAB 10 15 55] [BCDA 1 21 56]
[ABCD 8 6 57] [DABC 15 10 58] [CDAB 6 15 59] [BCDA 13 21 60]
[ABCD 4 6 61] [DABC 11 10 62] [CDAB 2 15 63] [BCDA 9 21 64]

/* Then perform the following additions. (That is increment each
of the four registers by the value it had before this block
was started.) */
A = A + AA
B = B + BB
C = C + CC
D = D + DD

end /* of loop on i */
begin with the low-order byte of A, and end with the high-order byte of D.

This completes the description of MD5. A reference implementation in C is given in the appendix.

4. Summary

The MD5 message-digest algorithm is simple to implement, and provides a "fingerprint" or message digest of a message of arbitrary length. It is conjectured that the difficulty of coming up with two messages having the same message digest is on the order of $2^{64}$ operations, and that the difficulty of coming up with any message having a given message digest is on the order of $2^{128}$ operations. The MD5 algorithm has been carefully scrutinized for weaknesses. It is, however, a relatively new algorithm and further security analysis is of course justified, as is the case with any new proposal of this sort.

5. Differences Between MD4 and MD5

The following are the differences between MD4 and MD5:

1. A fourth round has been added.

2. Each step now has a unique additive constant.

3. The function g in round 2 was changed from $(XY \lor XZ \lor YZ)$ to $(XZ \lor Y \neg(Z))$ to make g less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.
References


APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

- global.h -- global header file
- md5.h -- header file for MD5
- md5c.c -- source code for MD5

For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

- mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different platforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on "little-endian" platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

/* GLOBAL.H - RSAREF types and constants */
/*

/* PROTOTYPES should be set to one if and only if the compiler supports
function argument prototyping.
The following makes PROTOTYPES default to 0 if it has not already

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been defined with C compiler flags.
*/
#ifndef PROTOTYPES
#define PROTOTYPES 0
#endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above.
If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it
returns an empty list.
*/
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C
*/

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/*

/* MD5 context. */
typedef struct {
    UINT4 state[4]; /* state (ABCD) */
    UINT4 count[2]; /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));

A.3 md5c.c

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

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*/

#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine. */

#define S11 7
#define S12 12
#define S13 17
#define S14 22
#define S21 5
#define S22 9
#define S23 14
#define S24 20
#define S31 4
#define S32 11
#define S33 16
#define S34 23
#define S41 6
#define S42 10
#define S43 15
#define S44 21

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST
#define II(a, b, c, d, x, s, ac) { 
(a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
(a) = ROTATE_LEFT ((a), (s)); 
(a) += (b); 
}

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
void MD5Init (context)
MD5_CTX *context; /* context */
{
    context->count[0] = context->count[1] = 0;
    /* Load magic initialization constants. */
    context->state[0] = 0x67452301;
    context->state[1] = 0xefcdab89;
    context->state[2] = 0x98badcfe;
    context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
void MD5Update (context, input, inputLen)
MD5_CTX *context; /* context */
unsigned char *input; /* input block */
unsigned int inputLen; /* length of input block */
{
    unsigned int i, index, partLen;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3))
        < ((UINT4)inputLen << 3))
        context->count[1]++; 
    context->count[1] += ((UINT4)inputLen >> 29);

    partLen = inputLen - index;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[1] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[1] += ((UINT4)inputLen << 3))
        < ((UINT4)inputLen << 3))
        context->count[2]++; 
    context->count[2] += ((UINT4)inputLen >> 29);

    for (i = index; i < partLen; i++)
        S[0][0] = (S[0][0] + (int)((unsigned char)input[i]) + context->state[0] + context->state[1]) & 0xffffffff;
        S[1][0] = (S[1][0] + (int)((unsigned char)input[i + 1]) + context->state[1] + context->state[2]) & 0xffffffff;
        S[2][0] = (S[2][0] + (int)((unsigned char)input[i + 2]) + context->state[2] + context->state[3]) & 0xffffffff;
        S[3][0] = (S[3][0] + (int)((unsigned char)input[i + 3]) + context->state[3] + context->state[0]) & 0xffffffff;

        context->state[0] = S[0][0];
        context->state[1] = S[1][0];
        context->state[2] = S[2][0];
        context->state[3] = S[3][0];

        context->count[0] += partLen;
}

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partLen = 64 - index;

/* Transform as many times as possible. */
if (inputLen >= partLen) {
    MD5_memcpy
        ((POINTER)&context->buffer[index], (POINTER)input, partLen);
    MD5Transform (context->state, context->buffer);
    for (i = partLen; i + 63 < inputLen; i += 64)
        MD5Transform (context->state, &input[i]);
    index = 0;
} else
    i = 0;

/* Buffer remaining input */
MD5_memcpy
    ((POINTER)&context->buffer[index], (POINTER)&input[i], inputLen-i);
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the message digest and zeroizing the context. */
void MD5Final (digest, context)
    unsigned char digest[16];                       /* message digest */
    MD5_CTX *context;                                  /* context */
{
    unsigned char bits[8];
    unsigned int index, padLen;

    /* Save number of bits */
    Encode (bits, context->count, 8);

    /* Pad out to 56 mod 64. */
    index = (unsigned int)((context->count[0] >> 3) & 0x3f);
    padLen = (index < 56) ? (56 - index) : (120 - index);
    MD5Update (context, PADDING, padLen);

    /* Append length (before padding) */
    MD5Update (context, bits, 8);
/* Store state in digest */
Encode (digest, context->state, 16);

/* Zeroize sensitive information. */
MD5_memset ((POINTERT)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];
Decode (x, block, 64);

/* Round 1 */
FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
FF (b, c, d, a, x[ 3], S14, 0x1bdceee); /* 4 */
FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
FF (c, d, a, b, x[ 6], S13, 0xa38304613); /* 7 */
FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
FF (d, a, b, c, x[ 9], S12, 0x88b4f5af); /* 10 */
FF (c, d, a, b, x[10], S13, 0xbb67ae85); /* 11 */
FF (b, c, d, a, x[11], S14, 0x809a79d1); /* 12 */
FF (a, b, c, d, x[12], S11, 0x4c71b202); /* 13 */
FF (d, a, b, c, x[13], S12, 0x240c1381); /* 14 */
FF (c, d, a, b, x[14], S13, 0xd2a48202); /* 15 */
FF (b, c, d, a, x[15], S14, 0xe119b71f); /* 16 */

/* Round 2 */
GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc04b400); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e4a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0xe9d6167d); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0x06f639d3); /* 21 */
GG (d, a, b, c, x[10], S22, 0x08c6c2d4); /* 22 */
GG (c, d, a, x[15], S23, 0xd8a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */

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GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0xfcefa3f8); /* 30 */
GG (c, d, a, b, x[ 7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfdec580c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbefbfb70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0xfec2ce6e0); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0x4e0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb7d3af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information.

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*/
MD5_memset ((POINTER)x, 0, sizeof (x));
}

/* Encodes input (UINT4) into output (unsigned char). Assumes len is
a multiple of 4.
*/
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
unsigned int i, j;

for (i = 0, j = 0; j < len; i++, j += 4) {
output[j] = (unsigned char)(input[i] & 0xff);
output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
}
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is
a multiple of 4.
*/
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
unsigned int i, j;

for (i = 0, j = 0; j < len; i++, j += 4)
output[i] = ((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) |
((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
}

/* Note: Replace "for loop" with standard memcpy if possible. */

static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
output[i] = input[i];
}

/* Note: Replace "for loop" with standard memset if possible. */
static void MD5_memset (output, value, len)
POINTER output;
int value;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
((char *)output)[i] = (char)value;
}

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output[i] = input[i];
}

/* Note: Replace "for loop" with standard memset if possible. */
static void MD5_memset (output, value, len)
POINTER output;
int value;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)
((char *)output)[i] = (char)value;
}

A.4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */
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documentation and/or software.
*/

/* The following makes MD default to MD5 if it has not already been
defined with C compiler flags. */
#ifndef MD
#define MD MD5
#endif

#include <stdio.h>
#include <time.h>
#include <string.h>
#include "global.h"
#if MD == 2
#include "md2.h"
#endif
#if MD == 4
#include "md4.h"
#endif
#if MD == 5
#include "md5.h"
#endif

#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

/* Length of test block, number of test blocks. */
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000
static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif
#if MD == 5
#define MD_CTX MD5_CTX
#define MDInit MD5Init
#define MDUpdate MD5Update
#define MDFinal MD5Final
#endif

/* Main driver.

Arguments (may be any combination):
-ssstring - digests string
-t       - runs time trial
-x       - runs test script
filename - digests file
(none)   - digests standard input
*/
int main (argc, argv)
  int argc;
Rivest
RFC 1321 MD5 Message-Digest Algorithm April 1992

  char *argv[];
  {
    int i:
if (argc > 1)
for (i = 1; i < argc; i++)
  if (argv[i][0] == '-' && argv[i][1] == 's')
    MDString (argv[i] + 2);
else if (strcmp (argv[i], "-t") == 0)
  MDTimesTrial ();
else if (strcmp (argv[i], "-x") == 0)
  MDTestSuite ();
else
  MDFile (argv[i]);
else
  MDFilter ();

return (0);
}

/* Digests a string and prints the result. */
static void MDString (string)
char *string;
{
  MD_CTX context;
  unsigned char digest[16];
  unsigned int len = strlen (string);

  MDInit (&context);
  MDUpdate (&context, string, len);
  MDFinal (digest, &context);

  printf ("MD%d ("%s") = ", MD, string);
  MDPrint (digest);
  printf ("\n");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte blocks. */
static void MDTimesTrial ()
{
  MD_CTX context;
  time_t endTime, startTime;
  unsigned char block[TEST_BLOCK_LEN], digest[16];
  unsigned int i;
printf
("MD%d time trial. Digesting %d %d-byte blocks ...", MD,
TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

/* Initialize block */
for (i = 0; i < TEST_BLOCK_LEN; i++)
block[i] = (unsigned char)(i & 0xff);

/* Start timer */
time (&startTime);

/* Digest blocks */
MDInit (&context);
for (i = 0; i < TEST_BLOCK_COUNT; i++)
MDUpdate (&context, block, TEST_BLOCK_LEN);
MDFinal (digest, &context);

/* Stop timer */
time (&endTime);

printf (" done
");
printf ("Digest = ");
MDPrint (digest);
printf ("\nTime = %ld seconds\n", (long)(endTime-startTime));
printf ("Speed = %ld bytes/second\n", 
(long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));
}

/* Digests a reference suite of strings and prints the results.
*/
static void MDTestSuite ()
{
printf ("MD%d test suite:\n", MD);

MDString ("");
MDString ("a");
MDString ("abc");
MDString ("message digest");
MDString ("abcdefghijklmnopqrstuvwxyz");
MDString
("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
MDString
("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
/* Digests a file and prints the result. */

static void MDFile (filename)
char *filename;
{
    FILE *file;
    MD_CTX context;
    int len;
    unsigned char buffer[1024], digest[16];

    if ((file = fopen (filename, "rb")) == NULL)
printf ("%s can't be opened\n", filename);

    else {
        MDInit (&context);
        while (len = fread (buffer, 1, 1024, file))
            MDUpdate (&context, buffer, len);
        MDFinal (digest, &context);
        fclose (file);

        printf ("MD%d (%s) = ", MD, filename);
        MDPrint (digest);
        printf ("\n");
    }
}

/* Digests the standard input and prints the result. */

static void MDFilter ()
{
    MD_CTX context;
    int len;
    unsigned char buffer[16], digest[16];

    MDInit (&context);
while (len = fread (buffer, 1, 16, stdin))
MDUpdate (&context, buffer, len);
MDFinal (digest, &context);

MDPrint (digest);
printf ("\n");

/* Prints a message digest in hexadecimal. */
static void MDPrint (digest)
unsigned char digest[16];
{
unsigned int i;

for (i = 0; i < 16; i++)
printf ("%02x", digest[i]);
}

A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496cca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277df5e5611c2e9f419d9f
MD5 ("12345678901234567890123456789012345678901234567890123456789012345678901234567890") =
78901234567890

Security Considerations

The level of security discussed in this memo is considered to be sufficient for implementing very high security hybrid digital-signature schemes based on MD5 and a public-key cryptosystem.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/rfc1321.txt
No license file was found, but licenses were detected in source scan.

=head1 NAME
Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;
$ctx->add($data);
$ctx->addfile($file_handle);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

=head1 DESCRIPTION

The C<Digest::MD5> module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest, but it is probably wise to move to stronger algorithms for applications that depend on the digest to uniquely identify a message.

The C<Digest::MD5> module provide a procedural interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

=head1 FUNCTIONS

The following functions are provided by the C<Digest::MD5> module. None of these functions are exported by default.

=over 4

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.
=item md5_base64($data,...)

Same as md5(), but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

Note that the base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the redundant string "==" to the result.

=head1 METHODS

The object oriented interface to C<Digest::MD5> is described in this section. After a C<Digest::MD5> object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

=over 4

=item $md5 = Digest::MD5->new

The constructor returns a new C<Digest::MD5> object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. $md5->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case.

=item $md5->reset

This is just an alias for $md5->new.

=item $md5->clone

This a copy of the $md5 object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

```perl
my $md5 = Digest::MD5->new;
while (<>) {
    $md5->add($_);
```

print "Line $:. ", $md5->clone->hexdigest, "\n";
}

=item $md5->add($data,...)

The $data provided as argument are appended to the message we calculate the digest for. The return value is the $md5 object itself.

All these lines will have the same effect on the state of the $md5 object:

```
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b")->add("c");
$md5->add("a", "b", "c");
$md5->add("abc");
```

=item $md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the message we calculate the digest for. The return value is the $md5 object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $md5 object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $md5 object if this occurs.

In most cases you want to make sure that the $io_handle is in C<binmode> before you pass it as argument to the addfile() method.

=item $md5->add_bits($data, $nbits)

=item $md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as multiples of 8, so you probably want to just use add() instead. The add_bits() method is provided for compatibility with other digest implementations. See L<Digest> for description of the arguments that add_bits() take.

=item $md5->digest

Return the binary digest for the message. The returned string will be 16 bytes long.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the C<Digest::MD5>
object is automatically reset and can be used to calculate another

=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal
form. The length of the returned string will be 32 and it will only
contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest

Same as $md5->digest, but will return the digest as a base64 encoded
string. The length of the returned string will be 22 and it will only
contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+'
and '/'.

The base64 encoded string returned is not padded to be a multiple of 4
bytes long. If you want interoperability with other base64 encoded
md5 digests you might want to append the string "==" to the result.

=item @ctx = $md5->context

=item $md5->context(@ctx)

Saves or restores the internal state. When called with no arguments,
returns a 3-element list: number of blocks processed, a 16-byte
internal state buffer, then up to 63 bytes of unprocessed data. When
passed those same arguments, restores the state. This is only useful
for specialised operations.

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex()
function (or one of its cousins):

use Digest::MD5 qw(md5_hex);
prient "Digest is ", md5_hex("foobaz"), ",\n";

The above example would print out the message:

Digest is 6df23dc03f9b54cc38a0fc1483df6e21

The same checksum can also be calculated in OO style:
use Digest::MD5;

$md5 = Digest::MD5->new;
$md5->add('foo', 'bar');
$md5->add('baz');
$digest = $md5->hexdigest;

print "Digest is $digest\n";

With OO style, you can break the message arbitrarily. This means that we are no longer limited to have space for the whole message in memory, i.e. we can handle messages of any size.

This is useful when calculating checksum for files:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode($fh);

$md5 = Digest::MD5->new;
while (<$fh>) {
    $md5->add($_);
}
close($fh);
print $md5->b64digest, " $filename\n";

Or we can use the addfile method for more efficient reading of the file:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode ($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";

Since the MD5 algorithm is only defined for strings of bytes, it can not be used on strings that contains chars with ordinal number above 255 (Unicode strings). The MD5 functions and methods will croak if you try to feed them such input data:

use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}";
What you can do is calculate the MD5 checksum of the UTF-8 representation of such strings. This is achieved by filtering the string through `encode_utf8()` function:

```perl
use Digest::MD5 qw(md5_hex);
use Encode qw(encode_utf8);

my $str = "abc\{300}\";
print md5_hex(encode_utf8($str)), "\n";
# 8c2d46911f3f5a326455f0ed7a8ed3b3
```

=head1 SEE ALSO

L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>

L<md5sum(1)>

RFC 1321


The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang and Hongbo Yu.

=head1 COPYRIGHT

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

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The MD5 algorithm is defined in RFC 1321. This implementation is derived from the reference C code in RFC 1321 which is covered by the following copyright statement:

=over 4

=item

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=head1 AUTHORS

The original C<MD5> interface was written by Neil Winton (C<N.Winton@axion.bt.co.uk>).

The C<Digest::MD5> module is written by Gisle Aas <gisle@ActiveState.com>.

=cut

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/MD5.pm
No license file was found, but licenses were detected in source scan.

The Digest::MD5 module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. MD5 is described in RFC 1321.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/README
* No license file was found, but licenses were detected in source scan.

/*
 * This library is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 *
 * Copyright 1998-2000 Gisle Aas.
 *
 * This code is derived from Neil Winton's MD5-1.7 Perl module, which in
 * turn is derived from the reference implementation in RFC 1321 which
 * comes with this message:
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD5 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD5 Message-Digest Algorithm" in all material
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 *
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 *
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 * documentation and/or software.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/MD5.xs
No license file was found, but licenses were detected in source scan.

License:  (GPL+ or Artistic) and BSD

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009548130_1591379411.76/0/perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwDrJx/perl-Digest-MD5.spec

1.2006 perl-digest 1.17-395.el8
1.2006.1 Available under license :
  No license file was found, but licenses were detected in source scan.

=head1 NAME
Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5 = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/fixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface
documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

The digest can be delivered in three formats:

=over 8
=item I<binary>

This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I<base64>

A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

use Digest::MD5 qw(md5);
$digest = md5($message);

There are also versions of the functions with "_hex" or "_base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

=over 4
=item $ctx = Digest->XXX($arg,...)
The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

The clone method creates a copy of the digest state object and returns a reference to the copy.

This is just an alias for $ctx->new.

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with
ordinal number above 255.

=item $ctx->addfile( $io_handle )

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $ctx object if this occurs.

In most cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

=item $ctx->add_bits( $data, $nbits )

=item $ctx->add_bits( $bitstring )

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order $nbits % 8 >> bits are used. If $nbits is greater than $nbits % 8 >> then this method would do the same as $ctx->add($data) >>.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for $ctx->add_bits(pack("B*", $bitstring), length($bitstring)) >>.

The return value is the $ctx object itself.

This example shows two calls that should have the same effect:

$ctx->add_bits("111100001010");
$ctx->add_bits("xF0xA0", 12);

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest
Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA v4.3.1</td>
<td>41.3</td>
</tr>
<tr>
<td>Haval-256</td>
<td>256</td>
<td>Digest::Haval256 v1.0.4</td>
<td>39.8</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.6</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.3</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>Whirlpool</td>
<td>512</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
</tr>
<tr>
<td>MD2</td>
<td>128</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
</tr>
<tr>
<td>Adler-32</td>
<td>32</td>
<td>Digest::Adler32 v0.03</td>
<td>1.3</td>
</tr>
<tr>
<td>CRC-16</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>CRC-32</td>
<td>32</td>
<td>Digest::CRC v0.05</td>
<td>1.1</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::Perl::MD5 v1.5</td>
<td>1.0</td>
</tr>
<tr>
<td>CRC-CCITT</td>
<td>16</td>
<td>Digest::CRC v0.05</td>
<td>0.8</td>
</tr>
</tbody>
</table>
These numbers was achieved Apr 2004 with ActivePerl-5.8.3 running under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being pure perl implementations of the algorithms, which explains why they are so slow.

=head1 SEE ALSO

L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>,
L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>,
L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

The C<Digest::> interface is based on the interface originally developed by Neil Winton for his C<MD5> module.

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This is just a simple frontend module for autoloading of various Digest:: modules. It also provide documentation of the interface that all Digest:: modules should provide.
You will need perl version 5.004 or better to install this module.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```

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```example

```
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1.2028 jboss-as-deployment-scanner

7.3.0.Final-redhat-14

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1.2029 tpm2-tools 4.1.1-5.el8

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{ TARGET_FREEBSD_NR___aclcheck_fd, "__aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___aclcheck_file, "__aclcheck_file", "%s\"%s\", %d, %#x", NULL, NULL },
{ TARGET_FREEBSD_NR___aclcheck_link, "__aclcheck_link", "%s\"%s\", %d, %#x", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s\"%s\", %d", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s\"%s\", %d", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s\"%s\", %d, %#x", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s\"%s\", %d, %#x", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s\"%s\", %d, %#x", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s\"%s\", %d, %#x", NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s\"%s\"\)", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s\"%s\",%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s\"%s\",%#x\")", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s\"%s\", %d, \"%s\", %d, \"%s\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s\"%s\", %d, \"%s\")", NULL, NULL },
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TARGET_FREEBSD_NR_getpriority, "getpriority",
TARGET_FREEBSD_NR_getresgid, "getresgid",
TARGET_FREEBSD_NR_getresuid, "getresuid",
TARGET_FREEBSD_NR_getrlimit, "getrlimit",
TARGET_FREEBSD_NR_getrusage, "getrusage",
TARGET_FREEBSD_NR_getsid, "getsid",
TARGET_FREEBSD_NR_getsockname, "getsockname",
TARGET_FREEBSD_NR_getsockopt, "getsockopt",
TARGET_FREEBSD_NR_gettimeofday, "gettimeofday",
TARGET_FREEBSD_NR_getuid, "getuid",
TARGET_FREEBSD_NR_ioctl, "ioctl",
TARGET_FREEBSD_NR_issetugid, "issetugid",
TARGET_FREEBSD_NR_kevent, "kevent",
TARGET_FREEBSD_NR_kill, "kill",
TARGET_FREEBSD_NR_kqueue, "kqueue",
TARGET_FREEBSD_NR_ktrace, "ktrace",
TARGET_FREEBSD_NR_lchown, "lchown",
TARGET_FREEBSD_NR_lseek, "lseek",
TARGET_FREEBSD_NR_lstat, "lstat",
TARGET_FREEBSD_NR_madvise, "madvise",
TARGET_FREEBSD_NR_mincore, "mincore",
TARGET_FREEBSD_NR_mkdir, "mkdir",
TARGET_FREEBSD_NR_mkfifo, "mkfifo",
TARGET_FREEBSD_NR_mknod, "mknod",
TARGET_FREEBSD_NR_mlock, "mlock",
TARGET_FREEBSD_NR_mlockall, "mlockall",
TARGET_FREEBSD_NR_mmap, "mmap",
TARGET_FREEBSD_NR_mprotect, "mprotect",
TARGET_FREEBSD_NR_mprotect, "mprotect",
TARGET_FREEBSD_NR_mprotect, "mprotect",
TARGET_FREEBSD_NR_msgctl, "msgctl",
TARGET_FREEBSD_NR_msgget, "msgget",
TARGET_FREEBSD_NR_msgrcv, "msgrcv",
TARGET_FREEBSD_NR_msgsnd, "msgsnd",
TARGET_FREEBSD_NR_msync, "msync",
TARGET_FREEBSD_NR_open, "open",
TARGET_FREEBSD_NR_openat, "openat",
TARGET_FREEBSD_NR_pathconf, "pathconf",
TARGET_FREEBSD_NR_pståt, "pståt",
TARGET_FREEBSD_NR_poll, "poll"
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profile, "profile", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NRrecvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_shrb, "shrb", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
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===================
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Key Dates
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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
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Proposals (RFCs):
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3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

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Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
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* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change. The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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Contributions:

= Code Contributions =

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
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   Contributions using other licenses might be accepted, but further review will be required.

= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.
== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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John R. Hauser
2018 January 20

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Tom Callaway, Fedora Legal, Red Hat
Thu Sep 17, 2009
1.2034 snowball-stemmer 1.3.0.581.1

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## What is this?
This is a repackaging of a version of the snowball-stemmer found at http://snowball.tartarus.org/ so that it’s available on Maven Central.

## Maven
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<dependency>
  <groupId>com.github.rholder</groupId>
  <artifactId>snowball-stemmer</artifactId>
  <version>1.3.0.581.1</version>
</dependency>
```

## Gradle
```groovy
compile "com.github.rholder:snowball-stemmer:1.3.0.581.1"
```

## Versioning
In the absence of tags, branches, or releases in the original project SVN repository to call out a version, let’s go with what [PyStemmer](https://pypi.python.org/pypi/PyStemmer) is currently using and tack on the SVN revision number at the end followed by my patch revision number (to fix anything weird that I introduce). For the initial version, we’ll use 1.3.0.581.1.

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* [http://snowball.tartarus.org](http://snowball.tartarus.org)
* [https://github.com/snowballstem](https://github.com/snowballstem)

Found in path(s):
* /opt/cola/permits/1152275802_1618210674.01/0/rholder-snowball-stemmer-v1-3-0-581-1-0-ge571676-1-targ-z/rholder-snowball-stemmer-c4996c7/README.md
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1152275802_1618210674.01/0/rholder-snowball-stemmer-v1-3-0-581-1-0-ge571676-1-targ-z/rholder-snowball-stemmer-c4996c7/build.gradle

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**1.2035 cxf-tools-java2ws 2.7.18.SP7-redhat-1**

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1.2038 jul-to-slf4j-stub 1.0.1.Final-redhat-1

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* /opt/cola/permits/1077217821_1601879954.1/0/jul-to-slf4j-stub-1-0-1-final-redhat-3-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.2039 javassist 3.18.1-GA

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* /opt/cola/permits/1110677174_1600983766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1110677174_1600983766.77/0/javassist-3-18-1-ga-sources-3-
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ExceptionTable.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler>TypeChecker.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/Expr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/MethodCall.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java
1.2040 binutils 2.30

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstaton, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.
Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.
Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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@group
with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/ServiceWiringInfo.java
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  jar/org/springframework/beans>TypeConverterDelegate.java

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.2047 xz 5.2.4 3.el8
1.2047.1 Available under license:

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^L

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c) Accompany the work with a written offer, valid for at
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 */

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>

_GDEFS(giomm,gio)
_PINCLUDE(glibmm/private/object_p.h)
_PINCLUDE gio/gio.h

namespace Gio
{

/** An object representing the permission to perform a certain action.
 *
 * A Permission represents the status of the caller's permission to
 * perform a certain action.
 *
 * You can query if the action is currently allowed and if it is
 * possible to acquire the permission so that the action will be allowed
 * in the future.
 *
 * There is also an API to actually acquire the permission and one to
 * release it.
As an example, a Permission might represent the ability for the user to write to a Settings object. This Permission object could then be used to decide if it is appropriate to show a "Click here to unlock" button in a dialog and to provide the mechanism to invoke when that button is clicked.

@newin{2,42}

class Permission : public Glib::Object
{
  _CLASS_GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

  public:

  _WRAP_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire, errthrow)
  _WRAP_METHOD(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_METHOD(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish, errthrow)

  _WRAP_METHOD(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release, errthrow)
  _WRAP_METHOD(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_release_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_METHOD(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish, errthrow)

  _WRAP_METHOD(bool get_allowed() const, g_permission_get_allowed)
  _WRAP_METHOD(bool get_can_acquire() const, g_permission_get_can_acquire)
  _WRAP_METHOD(bool get_can_release() const, g_permission_get_can_release)

  _WRAP_PROPERTY("allowed", bool)
  _WRAP_PROPERTY("can-acquire", bool)
  _WRAP_PROPERTY("can-release", bool)

  protected:

  _CTOR_DEFAULT

  // A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
  #m4 _CONVERSION(`GAsyncResult*',`const Glib::RefPtr<AsyncResult>&',`Glib::wrap($3, true'))
  #m4 _CONVERSION(`GCancellable*',`const Glib::RefPtr<Cancellable>&',`Glib::wrap($3, true'))

  _WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable), acquire, errthrow)
// You should never call this function except from a Gio::Permission implementation.

_VRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release),
            g_permission_impl_update)
}  // namespace Gio

1.2061 picketbox-infinispan 4.0.15.Final
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Example:

```java
String encoded = Base64.encode( myByteArray );
```

```java
byte[] myByteArray = Base64.decode( encoded );
```

The `options` parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as `encodeBytes( bytes, options )` the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

to compress the data before encoding it and then making the output have newline characters.

Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

Change Log:

- v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.
- v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.
- v2.3.5 - Fixed bug in `encodeFromFile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.
- v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* [ @link #decodeToObject(java.lang.String, int, java.lang.ClassLoader) ]
* explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the [ @link #encodeBytesToBytes(byte[]) ] family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added [ @link #encodeBytesToBytes(byte[], int, int, int) ] and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* <ul>
* <li><em>Does not break lines, by default.</em> This is to keep in compliance with
* (especially those that may permit the GZIP option) use IO streams, there
* a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions</li>
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.</li>
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </li>
* <li>The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* http://www.faqs.org/rfcs/rfc3548.html
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
  URL and file name friendly format that preserves lexical ordering as described
* in http://www.faqs.org/qa/rfcq-1940.html
* <ol>
  * Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
    for contributing the new Base64 dialects.
  * </li>
  * <p/>
  * <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
    some conveniences methods for reading and writing to and from files.</li>
  * <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
    with other encodings (like EBCDIC).</li>
  * <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
    encoded data was a single byte.</li>
  * <li>v2.0 - I got rid of methods that used booleans to set options.
    Now everything is more consolidated and cleaner. The code now detects
    when data that's being decoded is gzip-compressed and will decompress it
    automatically. Generally things are cleaner. You'll probably have to
    change some method calls that you were making to support the new
    options format (<tt>int</tt>s that you "OR" together).</li>
  * <li>v1.5.1 - Fixed bug when decompressing and decoding to a
    byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
    Added the ability to "suspend" encoding in the Output Stream so
    you can turn on and off the encoding if you need to embed base64
    data in an otherwise "normal" stream (like an XML file).</li>
  * <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.</li>
  * This helps when using GZIP streams.
    Added the ability to GZip-compress objects before encoding them.</li>
  * <li>v1.4 - Added helper methods to read/write files.</li>
  * <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
  * <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
    where last buffer being read, if not completely full, was not returned.</li>
  * <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
  * <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
  * </ul>
  * </p>
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/*

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* /opt/cola/permits/1192071313_1637274312.95/0/relaxngdatatype-2011-1-redhat-6-sources-
jar/org/relaxng/datatype/helpers/DatatypeLibraryLoader.java
No license file was found, but licenses were detected in source scan.

/**
* Checks if the ID/IDREF semantics is associated with this
datatype.
*
* <p>
* This method is introduced to support the RELAX NG DTD
* compatibility spec. (Of course it's always free to use
* this method for other purposes.)
*
* <p>
* If you are implementing a datatype library and have no idea about
* the "RELAX NG DTD compatibility" thing, just return
* <code>ID_TYPE_NULL</code> is fine.
*
* @return
* If this datatype doesn't have any ID/IDREF semantics,
it returns [@link #ID_TYPE_NULL]. If it has such a semantics
*(for example, XSD:ID, XSD:IDREF and comp:ID type), then

*it returns [@link #ID_TYPE_ID], [@link #ID_TYPE_IDREF] or
*[@link #ID_TYPE_IDREFS].
*/

Found in path(s):
* /opt/cola/permits/1192071313_1637274312.95/0/relaxngdatatype-2011-1-redhat-6-sources-
jar/org/relaxng/datatype/Datatype.java

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* /opt/cola/permits/1283432064_1646721653.31/0/lua-lpeg-1.0.1-6.el8.src.rpm-cosi-expand-archive-iXwZFhbg/lpeg-1.0.1.tar.gz-cosi-expand-archive-guJwjUg/lpeg-1.0.1/re.html

1.2074 perl-uri 1.73-3.el8

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\* public static final String CONFIDENTIALITY_SUPPORTED = "SUPPORTED"; /** Confidentiality required */

\* public static final String CONFIDENTIALITY_REQUIRED = "REQUIRED"; /* The confidentiality */

private String confidentiality = CONFIDENTIALITY_NONE; /* Get the confidentiality. */

getConfidentiality() return confidentiality; /* Set the confidentiality. */

@param confidentiality the confidentiality.

@throws IllegalArgumentException for a null confidentiality public void setConfidentiality(String confidentiality) if (confidentiality == null) throw new IllegalArgumentException("Null confidentiality"); if (CONFIDENTIALITY_NONE.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_NONE; else if (CONFIDENTIALITY_SUPPORTED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_SUPPORTED; else if (CONFIDENTIALITY_REQUIRED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_REQUIRED; throw new IllegalArgumentException("Unknown transport confidentiality: " + confidentiality);

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Lennart Poettering, 2009

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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
  jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
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  jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
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  jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3.jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
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 * /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4.1-5-release-sources-3-
 jar/org/springframework/beans/support/TypeConverterSupport.java

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1.2089 e2fsprogs 1.45.6-2.el8

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::

$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 /*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 20763
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*******
* WHENCE *
*******

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Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd
Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

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Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

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Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

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Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

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Driver: snd-ymfpci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

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Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

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Found in hex form in kernel source.
Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qlogic/1040.bin
File: qlogic/1280.bin
File: qlogic/12160.bin

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Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

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Driver: kaweth -- USB KLSI KL5USB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

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Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppauge Nova-USB devices

File: ttusb-budget/dspbootcode.bin

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Found in hex form in the kernel source.
Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

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part, requires the inclusion of this statement."

Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S
Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

----------------------------------------------------------------------------------------------

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:
/*
 * This firmware is for the Emagic EMI 2|6 Audio Interface
 * 
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic
 * as an unpublished work. This notice does not imply unrestricted
 * or public access to this firmware which is a trade secret of Emagic,
 * and which may not be reproduced, used, sold or transferred to
 * any third party without Emagic's written consent. All Rights Reserved.
 * 
 * Permission is hereby granted for the distribution of this firmware
 * image as part of a Linux or other Open Source operating system kernel
 * in text or binary form as required.
 * 
 * This firmware may not be modified and may only be used with the
 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
 * any driver which includes this firmware, in whole or in part,
 * requires the inclusion of this statement.
 */

----------------------------------------------------------------------------------------------

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

--------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
   Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:
Port 1 LED flashes when the vend_ax program is running
Port 2 LED flashes when any SETUP command arrives
Port 3 LED flashes when any valid VENDOR request occurs
Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpi2 -- cameras based on Vision's CPiA2

File: cpi2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
   Copyright (C) 2001 STMicroelectronics, Inc.
   Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

------------------------------------------------------------------------------------------------------------------

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

* Copyright (C) 1999 BayCom GmbH
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that redistributions of source
* code retain the above copyright notice and this comment without
* modification.

------------------------------------------------------------------------------------------------------------------

Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

------------------------------------------------------------------------------------------------------------------

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

//***************************************************************
/// Edgeport/4 Binary Image
/// Generated by HEX2C v1.06
/// Copyright (C) 1998 Inside Out Networks, All rights reserved.
///***************************************************************

Found in hex form in kernel source.
Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:
>Statusesa***********************************************************************************************
>//* Edgeport Binary Image (for TI based products)
>//* Generated by TIBin2C v2.00 (watchport)
>//* Copyright (C) 2001 Inside Out Networks, All rights reserved.
>***************************************************************************

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from
http://www.zdomain.com/a56.html

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:
/*
 * Copyright (c) 1994 Creative Technology Ltd.
 * Microcode files for SB16 Advanced Signal Processor
 */

Found in hex form in kernel source.
Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.28 IPX
File: ql2322_fw.bin
Version: 3.03.28 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from http://ldriver.qlogic.com/firmware/

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1_1.fw
File: htc_9271.fw  
Version: 1.4.0  
File: htc_7010.fw  
Version: 1.4.0
Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw  
Version: 1.4.0  
File: ath9k_htc/htc_9271-1.4.0.fw  
Version: 1.4.0
Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

Driver: cassini - Sun Cassini
File: sun/cassini.bin
Licence: Unknown

Found in hex form in kernel source.

Driver: slicoss - Alacritech IS-NIC products
File: slicoss/gbdownload.sys
File: slicoss/gbrcvucode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvcode.sys
Licence:
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derived. Except as noted below this firmware image may not be
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image as part of a Linux or other Open Source operating system kernel
in text or binary form as required.

This firmware may not be modified.
Found in hex form in kernel source.

Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

Licence:
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This firmware may not be modified.

Found in hex form in kernel source.

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psram-1.1.0.bin
File: cxgb3/t3c_psram-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

Licence: GPLv2 or OpenIB.org BSD license, no source visible

Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin
Licence:
*Copyright (c) 2007-2009 NetLogic Microsystems, Inc.
*
*Permission is hereby granted for the distribution of this firmware
*data in hexadecimal or equivalent format, provided this copyright
*notice is accompanying it.

Found in hex form in kernel source.

---------------------------------------------------------------

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.25.6.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.25.6.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.25.6.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.25.6.0.bin
File: cxgb4/t6fw-1.25.6.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.25.6.0.bin
File: cxgb4/aq1202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

---------------------------------------------------------------

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

---------------------------------------------------------------
Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at http://alteon.shareable.org/

------------------------------------------------------------------------

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

Licence:
* Firmware is:
*Derived from proprietary unpublished source code,
*Copyright (C) 2000-2013 Broadcom Corporation.
*
*Permission is hereby granted for the distribution of this firmware
*data in hexadecimal or equivalent format, provided this copyright
*notice is accompanying it.

Found in hex form in kernel source.

------------------------------------------------------------------------

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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THERE IS NO WARRANTY FOR THE PROGRAM, INCLUDING BUT NOT LIMITED TO THE
IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE
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OWN RISK. IN NO EVENT WILL ADAPTEC OR ITS LICENSORS BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM.

--------------------------------------------------------------------------

Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

Licence: Redistributable. See LICENCE.i2400m for details

Also available from http://linuxwimax.org/Download

--------------------------------------------------------------------------

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

--------------------------------------------------------------------------
Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from http://dev.laptop.org/pub/firmware/libertas/

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

Licence: Redistributable. See LICENCE.Marvell for details. 8687 images downloaded from Marvell's "Extranet" with permission. 8366 images contributed directly by Marvell.

Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59
File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usbusb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.
Originates from https://github.com/NXP/mwifiex-firmware.git

--------------------------------------------------------------------------

Driver: iwlwifi - Intel Wireless Wifi
File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1
File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version: 16.242414.0

File: iwlwifi-7260-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0
File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version: 16.242414.0

File: iwlwifi-3160-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265-8.ucode
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version: 16.242414.0

File: iwlwifi-7265-17.ucode
Version: 17.bfb58538.0

Link: iwlwifi-7265D-10.ucode -> iwlwifi-7265-10.ucode

File: iwlwifi-7265D-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265D-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265D-16.ucode
Version: 16.242414.0

File: iwlwifi-7265D-17.ucode
Version: 17.352738.0

File: iwlwifi-7265D-21.ucode
Version: 21.302800.0

File: iwlwifi-7265D-22.ucode
Version: 22.391740.0

File: iwlwifi-7265D-27.ucode
Version: 27.541033.0

File: iwlwifi-7265D-29.ucode
Version: 29.f2390aa8.0

File: iwlwifi-3168-21.ucode
Version: 21.302800.0

File: iwlwifi-3168-22.ucode
Version: 22.391740.0

File: iwlwifi-3168-27.ucode
Version: 27.541033.0

File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0

File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0

File: iwlwifi-8000C-16.ucode
Version: 16.242414.0

File: iwlwifi-8000C-21.ucode
Version: 21.302800.0

File: iwlwifi-8000C-22.ucode
Version: 22.391740.0

File: iwlwifi-8000C-27.ucode
Version: 27.541033.0

File: iwlwifi-8000C-31.ucode
Version: 31.560484.0

File: iwlwifi-8000C-34.ucode
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-8265-21.ucode
Version: 21.302800.0

File: iwlwifi-8265-22.ucode
Version: 22.391740.0

File: iwlwifi-8265-27.ucode
Version: 27.541033.0

File: iwlwifi-8265-31.ucode
Version: 31.560484.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0

File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0

File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0

File: iwlwifi-9260-dh-b0-jf-b0-46.ucode
Version: 46.6b541b68.0

File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab8da.0

File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.4fa0041f.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0
File: iwlwifi-cc-a0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0
File: iwlwifi-cc-a0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-Qu-b0-hr-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-Qu-b0-jf-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-Qu-c0-hr-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-Qu-c0-jf-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-QuZ-a0-hr-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-QuZ-a0-jf-b0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-ty-a0-gf-a0-62.ucode
Version: 62.49eeb572.0
File: iwlwifi-cc-a0-63.ucode
Version: 63.c04f3485.0
File: iwlwifi-Qu-b0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0.pnvm

Licence: Redistributable. See LICENCE.iwlwifi_firmware for details

Also available from http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware

-------------------------------------------------------------------------

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311fce49c5a180b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

Licence: Redistributable. See LICENSE.ipu3_firmware for details

-------------------------------------------------------------------------

Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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--------------------------------------------------------------------------

Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

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--------------------------------------------------------------------------

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

/*
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*/

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--------------------------------------------------------------------------

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 * *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * waranty expressed or implied about its fitness for any purpose.
 */
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 * - Loaded from xl_init upon adapter initialization.
 */
* Available from 3Com as part of their standard 3C359 driver.
*/

Found in hex form in kernel source.

------------------------------------------------------------------------------------------------------------

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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------------------------------------------------------------------------------------------------------------

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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------------------------------------------------------------------------------------------------------------

Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

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------------------------------------------------------------------------------------------------------------
Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

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--------------------------------------------------------------------------

Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

--------------------------------------------------------------------------

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx7OD.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

--------------------------------------------------------------------------

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw
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-------------------------------------------------------------------------

Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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-------------------------------------------------------------------------

Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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-------------------------------------------------------------------------

Driver: qlogicpti - PTI Qlogic, ISP Driver

File: qlogic/isp1000.bin
Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e2-7.0.20.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.2.51.0.fw
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---------------------------------------------------------------

Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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--------------------------------------------------------------------------

Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.


--------------------------------------------------------------------------

Driver: dvb-tpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from https://linuxtv.org/downloads/firmware/Boot.S

-----------------------------------------------

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

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-----------------------------------------------

Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

-----------------------------------------------

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from http://www.ralinktech.com/ralink/Home/Support/Linux.html

-----------------------------------------------

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details
Downloaded from http://www.mediatek.com/en/downloads/

------------------------------------------------------------------------

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details


------------------------------------------------------------------------

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

------------------------------------------------------------------------

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

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------------------------------------------------------------------------

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin

File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.
Driver: usbdux/usbduxfast/usbduxsigma - usbdux data acquisition cards

File: usbdux_firmware.bin
File: usbduxfast_firmware.bin
File: usbduxsigma_firmware.bin
Source: usbdux/

Licence: GPLv2. See GPL-2 for details.
Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENSE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

--------------------------------------------------------------------------

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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--------------------------------------------------------------------------

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc.bin
File: radeon/HAWAII_mc2.bin
File: radeon/HAWAII_me.bin
File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
File: radeon/HAWAII_rlc.bin
File: radeon/HAWAII_sdma.bin
File: radeon/HAWAII_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_k_smc.bin
File: radeon/pitcairn_mc.bin
File: radeon/pitcairn_me.bin
File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
File: radeon/tahiti_ce.bin
File: radeon/tahiti_k_smc.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/hainan_k_smc.bin
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File: radeon/hainan_smc.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_k_smc.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_k_smc.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
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File: radeon/kabini_smc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
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File: radeon/kaveri_ce.bin
File: radeon/kaveri_k_smc.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_udv.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin
File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/tahiti_udv.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/pitcairn_udv.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
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File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smacin.bin
File: amdgpu/verde_udv.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
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File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/oland_smc.bin
File: amdgpu/oland_uvd.bin
File: amdgpu/si58_mc.bin
File: amdgpu/banks_k_2_smc.bin
File: amdgpu/bonaire_ce.bin
File: amdgpu/bonaire_k_smc.bin
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File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
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File: amdgpu/tonga_vce.bin
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File: amdgpu/carrizo_me.bin
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File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
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File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
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File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin
File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
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File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
File: amdgpu/polaris10_ce.bin
File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec.bin
File: amdgpu/polaris10_mec_2.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_pfp_2.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_ce_2.bin

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File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_me_2.bin
File: amdgpu/polaris11_mec2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec.bin
File: amdgpu/polaris11_mec_2.bin
File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_pfp_2.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
File: amdgpu/polaris11_smc.bin
File: amdgpu/polaris11_k_smc.bin
File: amdgpu/polaris11_k2_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin
File: amdgpu/polaris12_ce.bin
File: amdgpu/polaris12_ce_2.bin
File: amdgpu/polaris12_mc.bin
File: amdgpu/polaris12_k_mc.bin
File: amdgpu/polaris12_32_mc.bin
File: amdgpu/polaris12_me.bin
File: amdgpu/polaris12_me_2.bin
File: amdgpu/polaris12_mec.bin
File: amdgpu/polaris12_mec_2.bin
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File: amdgpu/polaris12_pfp.bin
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File: amdgpu/vegam_vce.bin
File: amdgpu/vega10_acg_smc.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega10_ce.bin
File: amdgpu/vega10_gpu_info.bin
File: amdgpu/vega10_me.bin
File: amdgpu/vega10_mec.bin
File: amdgpu/vega10_mec2.bin
File: amdgpu/vega10_pfp.bin
File: amdgpu/vega10_rlc.bin
File: amdgpu/vega10_sdma.bin
File: amdgpu/vega10_sdma1.bin
File: amdgpu/vega10_smc.bin
File: amdgpu/vega10_sos.bin
File: amdgpu/vega10_uvd.bin
File: amdgpu/vega10_vce.bin
File: amdgpu/vega12_asd.bin
File: amdgpu/vega12_ce.bin
File: amdgpu/vega12_gpu_info.bin
File: amdgpu/vega12_me.bin
File: amdgpu/vega12_mec.bin
File: amdgpu/vega12_mec2.bin
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File: amdgpu/vega20_ta.bin
File: amdgpu/raven_asd.bin
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File: amdgpu/raven_mec.bin
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File: amdgpu/raven_vcn.bin
File: amdgpu/raven_dmcu.bin
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File: amdgpu/raven_ta.bin
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File: amdgpu/picasso_gpu_info.bin
File: amdgpu/picasso_me.bin
File: amdgpu/picasso_mec.bin
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File: amdgpu/raven2_vcn.bin
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File: amdgpu/navi10_gpu_info.bin
File: amdgpu/navi10_me.bin
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File: amdgpu/navi10_sdma1.bin
File: amdgpu/navi10_smc.bin
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File: amdgpu/navi10_ta.bin
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File: amdgpu/-navi14_ce.bin
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File: amdgpu/-navi14_gpu_info.bin
File: amdgpu/-navi14_me.bin
File: amdgpu/-navi14_me_wks.bin
File: amdgpu/-navi14_mec.bin
File: amdgpu/-navi14_mec_wks.bin
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File: amdgpu/-navi14_mec2_wks.bin
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File: amdgpu/-navi14_pfp_wks.bin
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File: amdgpu/naiv12_asd.bin
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File: amdgpu/naiv12_me.bin
File: amdgpu/naiv12_mec.bin
File: amdgpu/naiv12_mec2.bin
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File: amdgpu/naiv12_sdma1.bin
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File: amdgpu/naiv12_vcn.bin
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File: amdgpu/sienna_cichlid_me.bin
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File: amdgpu/dimgrey_cavefish_smc.bin
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File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin

Licence: Redistributable. See LICENSE.amdgpu for details.

--------------------------------------------------------------------------

Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

Licence: Redistributable.

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--------------------------------------------------------------------------

Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

--------------------------------------------------------------------------

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

--------------------------------------------------------------------------

Driver: ib_qib - QLogic Infiniband
Licence:

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Found in hex form in kernel source.

------------------------------------------------------------------

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeIVO.bin
File: ueagle-atm/CMVeFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVeFR.bin
File: ueagle-atm/CMVe30.bin
File: ueagle-atm/CMVeFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVeES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPeP.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on

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Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: bcm/bcm43xx-0.fw
File: bcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

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Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: bcm/bcm4329-fullmac-4.bin
File: bcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac4362-pcie.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
Licence: Redistributable. See LICENCE.cypress for details.

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.predia-basic.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
Link: brcm/brcmfmac43362-sdio.lemaker.bananapro.txt -> brcmfmac43362-sdio.cubietech,cubietruck.txt
File: "brcm/brcmfmac43330a0-sdio.ilife-S806.txt"
File: "brcm/brcmfmac43330a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43330a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43330a0-sdio.AP6212.txt"
Link: brcm/brcmfmac43340-sdio.sinovoip,bpi-m2-plus.txt -> brcmfmac43340-sdio.AP6212.txt
Link: brcm/brcmfmac43340-sdio.sinovoip,bpi-m2-zero.txt -> brcmfmac43340-sdio.AP6212.txt
Link: brcm/brcmfmac43340-sdio.sinovoip,bpi-m2-ultra.txt -> brcmfmac43340-sdio.AP6212.txt
Link: brcm/brcmfmac43340-sdio.sinovoip,bpi-m3.txt -> brcmfmac43340-sdio.AP6212.txt
File: "brcm/brcmfmac43340-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43330-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43340-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43340-sdio.raspberrypi,model-zero-w.txt -> brcmfmac43340-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43445-sdio.raspberrypi,3-model-b-plus.txt"
Link: brcm/brcmfmac43445-sdio.raspberrypi,3-model-a-plus.txt -> brcmfmac43445-sdio.raspberrypi,3-model-b-plus.txt
File: "brcm/brcmfmac43445-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43445-sdio.Raspberry\Pi\Foundation-Raspberry\Pi\4\Model\B.txt -> brcmfmac43445-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43445-sdio.Raspberry\Pi\Foundation-Raspberry\Pi\Compute\Module\4.txt -> brcmfmac43445-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43445-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: brcm/brcmfmac4356-sdio.vamrs,rock960.txt
Link: brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.vamrs,rock960.txt

Licence: GPLv2. See GPL-2 for details.

--------------------------------------------------------------------------

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.  
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--------------------------------------------------------------------------

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

--------------------------------------------------------------------------

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

--------------------------------------------------------------------------

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.
The NVS file includes two parts:
- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:


If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

-------------------------------------------------------------------------------

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

-------------------------------------------------------------------------------

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin
Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver
All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c
Relevant variables (CONFIG_BT_COEXISTENCE not set):
- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFwUMCACutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFwTSMCImgArray
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE

Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E

Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------
Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE
Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------
Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU
Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
   Firmware is embedded in the driver as data statements. This info
   has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------
Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE
Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------
Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU
Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

-------------------------------------------------------------------------

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported by rtw88 because the hardware arch is similar.

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A

File: rtw89/rtw8852a_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
   rtl_92ee_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
   Updated Jan. 14, 2015 with file added by Realtek to
   http://github.com/lwfinger/rtlwifi_new.git.
File: rtlwifi/rtl8192eefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
   v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
File: rtlwifi/rtl8723bs_nic.bin
File: rtlwifi/rtl8723bs_ap_wowlan.bin
File: rtlwifi/rtl8723bs_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
   rtl8723A_WiFi_linux_v4.1.3_6044.20121224
   Firmware is embedded in the driver as data statements. This info
   has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin
Info: rtl8723bu taken from Realtek driver
  rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
  Firmware is embedded in the driver as data statements. This info
  has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
  rtl8192EU_linux_v4.3.1.1_11320.20140505
  Firmware is embedded in the driver as data statements. This info
  has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw
File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106-1.fw
Version: 0.0.1
File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1

File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:
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*
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* notice is accompanying it.

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Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters
File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

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Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw


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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details
Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

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Driver: Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeeprom.data
File: ath6k/AR6002/eeeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4-1.0-00047
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN.RM.4.4.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin
Version: WLAN.RM.4.4.1-00077
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-sdio-6.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00047
Licence: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw1.0/board-2.bin
File: ath10k/QCA9888/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.bin
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Link: qcom/sdm845/wlanmdsp.mbn -> ../../ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
Licence: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp
Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

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Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3-fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_FW.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04
File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist
File: ath11k/IPQ6018/hw1.0/q6 fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSWPL_SILICONZ-2
Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENCE.myri10ge_firmware for details.

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Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointing.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbadaddr.pst
File: ar3k/30101coex/PS_ASM_clLowPri.pst
File: ar3k/30101coex/PS_ASM_clHighPri.pst
File: ar3k/30101coex/PS_ASM.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENCE.atheros_firmware for details

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Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwr.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwr.bin
File: ene-ub6250/ms_rdwr.bin
Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

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Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

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Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/
Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
Version: BT_StonePeak_D1_REL_66_1167
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
Version: BT_StonePeak_D1_REL_66_1167
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0522
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL0306
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL0306
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL19718
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-0-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-18-16-1.sfi
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-2.ddc
Version: BT_ThunderPeak_B0_B0_REL19718
File: intel/ibt-18-0-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-0-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-20-0-3.sfi
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL25791
File: intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL25791
File: intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL25791
File: intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL23884
File: intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL23884

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are
updated on April 14, 2017.
Files rtl_bt/rtl8821c_* and rtl_bt/rtl8723d_* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: rp2 -- Control RocketPort 2 serial driver

File: rp2.fw
Licence: Redistributable.

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/ir192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

-----------------------------------------------

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2020-11-20
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2020-11-20

License: Redistributable. See LICENSE.amd-sev for details

------------------------------------------------------------------------------------------------------------------------

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2019-12-18

License: Redistributable. See LICENSE.amd-ucode for details

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Driver: mxu11x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

License: Redistributable. See LICENCE.moxa for details

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Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

License: Redistributable. See LICENCE.moxa for details

------------------------------------------------------------------------------------------------------------------------
Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

License:
Copyright (c) 2011-2013 Sagrad, Inc.

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(Please note that the actual device firmware is separately licensed)

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin
File: ct2fw-3.2.5.1.bin

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

Licence:
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* Derived from proprietary unpublished source code,
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*as part of Linux or other Open Source operating system kernel
*provided this copyright notice is accompanying it.

Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

License: Redistributable. See LICENCE.Abilis for details

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

License: Redistributable. See LICENCE.IntcSST2 for details
Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.0B.02.02

License: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969
File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> dsp_fw_release_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v3366.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp-fw_cnl.bin -> dsp-fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details

--------------------------------------------------------------------------

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: sms1xxx-hcw-55xxx-dvbt-02.fw
File: sms1xxx-hcw-55xxx-isdbt-02.fw
File: sms1xxx-nova-a-dvbt-01.fw
File: sms1xxx-nova-b-dvbt-01.fw
File: sms1xxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

License: Redistributable. See LICENCE.siano for details

--------------------------------------------------------------------------
Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin
Version: v55.15

File: nvidia/tegra194/xusb.bin
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

--------------------------------------------------------------------------

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin

File: nvidia/tegra186/vic04_ucode.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucode.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

--------------------------------------------------------------------------

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2
File: atusb/atusb-0.3.dfu
Version: 0.3
File: atusb/rzusb-0.3.bin
Version: 0.3
Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

--------------------------------------------------------------------------
Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0110.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

--------------------------------------------------------------------------

Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

--------------------------------------------------------------------------
Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin
Version: v1.7.2

File: liquidio/lio_210nv_nic.bin
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

Driver: nitrox -- Cavium CNN5XX crypto driver

File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENCE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/gl_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/gl_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_huc_7.0.3.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for DG1

File: i915/dg1_huc_7.7.1.bin
Version: Huc API/APB ver 7 release 1 for DG1

File: i915/adls_dmc_ver2_01.bin
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P
License: Redistributable. See LICENSE.i915 for details

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../../tu116/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

--------------------------------------------------------------------------

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.4

License: Redistributable. See LICENSE.atmel for details

--------------------------------------------------------------------------

Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

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Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENCE.ti-keystone for details.

--------------------------------------------------------------------------
Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

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Driver: mtk scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

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OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

---------------------------------------------------------------

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

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Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

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Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details
Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200131
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2cc04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

-------------------------------------------------------------------------

Driver: mt7915e - MediaTek MT7915e Wireless MACs

File: mediatek/mt7915_wm.bin
Version: 20201105
File: mediatek/mt7915_wa.bin
Version: 20201105
File: mediatek/mt7915_rom_patch.bin
Version: 20201105

Licence: Redistributable. See LICENCE.mediatek for details.

-------------------------------------------------------------------------

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20210612122717a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20210612122753

Licence: Redistributable. See LICENCE.mediatek for details.

-------------------------------------------------------------------------

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20210223142901

Licence: Redistributable. See LICENCE.mediatek for details.

-------------------------------------------------------------------------

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw -> nic/nic_AMDA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw -> nic/nic_AMDA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  20959

Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw
Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDA0078-0011_1x100.nffw
File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Version: v2.1.16.1

File: netronome/flower/nic_AMDA0099.nffw
File: netronome/flower/nic_AMDA0096.nffw
File: netronome/flower/nic_AMDA0097.nffw
File: netronome/flower/nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0081.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0081-0001_1x40.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_2x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_1x10_1x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0081-0001_4x10.nffw -> nic_AMDA0081.nffw
Link: netronome/flower/nic_AMDA0097-0001_4x10_1x40.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0099-0001_2x25.nffw -> nic_AMDA0099.nffw
Link: netronome/flower/nic_AMDA0096-0001_2x10.nffw -> nic_AMDA0096.nffw
Link: netronome/flower/nic_AMDA0097-0001_8x10.nffw -> nic_AMDA0097.nffw
Link: netronome/flower/nic_AMDA0058-0011_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0011_4x10_1x40.nffw -> nic_AMDA0058.nffw
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1  20960

Link: netronome/flower/nic_AMDA0058-0011_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0058-0012_8x10.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0011_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_1x100.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_2x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_4x10_1x40.nffw -> nic_AMDA0058.nffw
Link: netronome/flower/nic_AMDA0078-0012_8x10.nffw -> nic_AMDA0058.nffw

File: netronome/bpf/nic_AMDA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw


File: netronome/bpf/nic_AMDA000881-0001_1x40.nffw
File: netronome/bpf/nic_AMDA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

Driver: wil6210 - Qualcomm Atheros support for 11ad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: venus - Qualcomm Venus video codec accelerator
File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt
File: qcom/venus-5.4/venus.b00
File: qcom/venus-5.4/venus.b01
File: qcom/venus-5.4/venus.b02
File: qcom/venus-5.4/venus.b03
File: qcom/venus-5.4/venus.b04
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt
File: qcom/vpu-1.0/venus.b00
File: qcom/vpu-1.0/venus.b01
File: qcom/vpu-1.0/venus.b02
File: qcom/vpu-1.0/venus.b03
File: qcom/vpu-1.0/venus.b04
File: qcom/vpu-1.0/venus.b05
File: qcom/vpu-1.0/venus.b06
File: qcom/vpu-1.0/venus.b07
File: qcom/vpu-1.0/venus.b08
File: qcom/vpu-1.0/venus.b09
File: qcom/vpu-1.0/venus.b10
File: qcom/vpu-1.0/venus.b19
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt
File: qcom/vpu-2.0/venus.b00
File: qcom/vpu-2.0/venus.b01
File: qcom/vpu-2.0/venus.b02
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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https://developer.qualcomm.com/hardware/dragonboard-410c/tools

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Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

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-----------------------------------------------

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw

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Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn
File: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
File: qcom/sdm845/cdspr.jsn
File: qcom/sm8250/adsp.mbn
File: qcom/sm8250/adspr.jsn
File: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
File: qcom/sm8250/cdspr.jsn

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http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
https://github.com/andersson/pil-squasher

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
https://github.com/andersson/pil-squasher
Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem.mbn
File: qcom/sdm845/modemuw.jsn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1 20964
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2

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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

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Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb
File: dpaa2/mc/mc_10.10.0_ls2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
File: dpaa2/mc/mc_10.14.3_ls1088a.itb
File: dpaa2/mc/mc_10.14.3_ls2088a.itb
File: dpaa2/mc/mc_10.14.3_lx2160a.itb
File: dpaa2/mc/mc_10.16.2_ls1088a.itb
File: dpaa2/mc/mc_10.16.2_ls2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb
File: dpaa2/mc/mc_10.18.0_ls1088a.itb
File: dpaa2/mc/mc_10.18.0_ls2088a.itb
File: dpaa2/mc/mc_10.18.0_lx2160a.itb

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Driver: mscc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

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Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_h26c_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sm1_hevc_mmu.bin
File: meson/vdec/sm1_vp9_mmu.bin

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Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.16.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.16.0.pkg

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File: intel/ice/ddp-comms/ice_comms-1.3.20.0.pkg

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Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin
File: inside-secure/eip197_minifw/ifpp.bin

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Driver: presta - Marvell driver for Prestera family ASIC devices

File: mrvl/prestera/mvsw_prestera_fw-v2.0.img
File: mrvl/prestera/mvsw_prestera_fw-v3.0.img

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---------------------------------------------------------------

Driver: lt9611uxc - Lontium DSI to HDMI bridge

File: lt9611uxc_fw.bin
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Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: silabs/wfm_wf200_C0.sec
Version: 3.12.1

Licence: Redistributable. See silabs/LICENCE.wf200 for details.
Originates from https://github.com/SiliconLabs/wfx-firmware
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   (For example, a function in a library to compute square roots has...
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone’s free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.2114 jackson-databind 2.13.2.2

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1.1-0-final-sources-1-
jar/org/jboss/logging/processor/model/MessageLoggerImplementor.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/validation/AbstractFormatValidator.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/JBossLoggers.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/util/TranslationHelper.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/validation/AbstractFormatPart.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/apt/TranslationFileGenerator.java
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* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/generator/model/MessageObjectType.java
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* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1.jar/org/jboss/logging/processor/apt/AbstractGenerator.java

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  jar/org/jboss/logging/annotations/LogMessage.java
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  jar/org/jboss/logging/annotations/Cause.java
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1.2125 glibc 2.28-164.el8

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1.2129 woodstox-core-asl 4.4.1

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jar/com/ctc/wstx/sr/AttributeCollector.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/RepairingNsStreamWriter.java

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  jar/com/ctc/wstx/sw/BaseNsStreamWriter.java

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1.2133 ncompress 4.2.4.4-13.el8

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The following article from James A. Woods, one of the earlier 
authors of compress, explains its relationship to the Unisys 
patent on the LZW compression method:

From uunet!zephyr.ens.tek.com!uw-beaver!mit-eddie!wuarchive!usc!ucsd!ucbvax!agate!riacs!jaw Wed Aug 1 
15:06:59 EDT 1990
Article: 1282 of gnu.misc.discuss
As a co-author of 'compress' who has had contact with an attorney for Unisys (nee Sperry), I would like to relay a very basic admission from Unisys that noncommercial use of 'compress' is perfectly legal. 'Compress' is also commercially distributed by AT&T as part of Unix System 5 release 4, with no further restrictions placed upon the use of the binary, as far as I am aware.

From conversations with Professor Abraham Lempel and others, it appears that neither AT&T, Sun Microsystems, Hewlett Packard, nor IBM are paying any sort of license fees to Unisys in conjunction with patent #4,558,302. It may be true that some organizations are paying fees for data compression technology licensed from one or more of the many holders of compression patents, but this is all independent from 'compress'.

In particular, I received a letter at NASA dated October 1, 1987 from John B. Sowell of the Unisys law department, informing me for the first time that some form of LZW was patented. I naturally expressed skepticism that an algorithm could be patented (a murky legal area which remains so), stated that 'compress' is not identical to LZW, and in fact was designed, developed, and distributed before the ink on the patent was dry. Several telephone conversations later, Mr. Sowell intimated that they would *not* seek any fees from users of 'compress' but instead were signing licensees for hardware implementations of LZW.

So, regardless of what you believe about a shady legal area, if anyone from Unisys contacts you to extract tribute for the use of 'compress', please tell them that, first, it is not theirs to begin with, and, second, there is someone who will testify in court about the conversation above. It is not even clear if anyone can "own" 'compress', since original developer Spencer Thomas, myself, and others placed the code in the public domain long before the adoption of the Berne copyright convention.

In light of the events above, it seems that the Free Software
Foundation is being unduly paranoid about the use of ‘compress’. Now I can well believe that FSF is more likely to be a legal target than a behemoth like AT&T, but if they are simply redistributing untouched free software developed years ago in the public sector, I see no problem.

Aside: I am investigating, possibly for a case history to be recycled to USENET, the particulars of data compression patents. I am aware of the following patents: IBM’s Miller-Wegman LZ variant, those of Telcor and ACT [losing candidates for the British Telecom modem standard], James A. Storer’s work on limited lookahead as explicated in his text "Data Compression (methods and theory)". Computer Science Press, 1988, and the various patents pending associated with the Fiala and Greene CACM article of April, 1989 on textual substitution methods. If you have any lore, send it this way.

Sincerely,

James A. Woods
NASA Ames Research Center (RIACS)
jaw@riacs.edu (or ames!jaw)

P.S. The algorithm patent issue certainly is a "topic A" at the moment. One useful reference is the review article by Anthony and Colwell -- "Litigating the Validity and Infringement of Software Patents" in Washington and Lee Law Review, volume 41, fall 1984. I know Robert Colwell personally. As a practicing patent attorney, he tells me that, at a minimum, use of an invention "for research purposes" is legitimate.
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/WindowReferenceDescr.java

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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/DroolsEditorType.java
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jar/org/drools/lang/dsl/AntlrDSLMappingEntry.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/rule/builder/ForallBuilder.java

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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/MVELExprDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/compiler/ProcessBuilderFactoryService.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/StringConnectiveDescr.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/ConnectiveDescr.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/DroolsParaphraseTypes.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/DrlExprParser.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/DescrConnectiveType.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/api/impl/SourceDescrBuilderImpl.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/api/impl/CollectDescrBuilderImpl.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/OperatorDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/api/impl/CollectionDescrBuilderImpl.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/OperatorDescr.java
jar/org/drools/lang/DroolsSentence.java
*/

* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/EvalDescrBuilder.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/impl/RuleDescrBuilderImpl.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/commons/jci/compilers/JavaCompiler.java

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  jar/org/drools/save/ForFunctionDescr.java
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  jar/org/drools/compiler/ParserError.java
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  jar/org/drools/compiler/xml/rules/ExpressionHandler.java
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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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*/

options
{
  STATIC=false;
  UNICODE_INPUT=true;
  LEXER_CLASS="FMParseTokenManager";
  CONSTANTS_CLASS="FMParseConstants";
  // DEBUG_TOKEN_MANAGER=true;
  // DEBUG_PARSER=true;
}

PARSER_BEGIN(FMParse)

package freemarker.core;

import freemarker.template.*;
import freemarker.template.utility.StringUtil;
import freemarker.template.utility.DeepUnwrap;
import java.io.*;
import java.util.*;

/**
* This class is generated by JavaCC from a grammar file.
*/
public class FMParse {

  // Necessary for adding macros and setting location info.
  Template template;
  private String templateName;

  // variables that keep track of whether we are in a loop or a switch.
  private int loopNesting, switchNesting;
  private boolean inMacro, inFunction, stripWhitespace, stripText;
  private LinkedList escapes = new LinkedList();
  private int contentNesting; // for stripText

}
* Create an FM expression parser using a string.
*/

static public FMParser createExpressionParser(String s) {
    SimpleCharStream scs = new SimpleCharStream(new StringReader(s), 1, 1, s.length());
    FMParserTokenManager token_source = new FMParserTokenManager(scs);
    token_source.SwitchTo(FMParserConstants.FM_EXPRESSION);
    return new FMParser(token_source);
}

/**
 * Constructs a new parser object.
 * @param template The template associated with this parser.
 * @param reader The character stream to use as input
 * @param strictEscapeSyntax Whether FreeMarker directives must start with a #
 */

public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace) {
    this(reader);
    this.template = template;
    token_source.strictEscapeSyntax = strictEscapeSyntax;
    this.templateName = template != null ? template.getName() : "";
    token_source.templateName = templateName;
    this.stripWhitespace = stripWhitespace;
}

public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace, int tagSyntax) {
    this(template, reader, strictEscapeSyntax, stripWhitespace);
    switch (tagSyntax) {
        case Configuration.AUTO_DETECT_TAG_SYNTAX :
            token_source.autodetectTagSyntax = true;
            break;
        case Configuration.ANGLE_BRACKET_TAG_SYNTAX :
            token_source.altDirectiveSyntax = false;
            break;
        case Configuration.SQUARE_BRACKET_TAG_SYNTAX :
            token_source.altDirectiveSyntax = true;
            break;
        default : throw new IllegalArgumentException("Illegal argument for tagSyntax");
    }
}

public FMParser(String template) {
    this(null, new StringReader(template), true, true);
}

private String getErrorStart(Token t) {
    return "Error in template: " + template.getName()
        + "non line " + t.beginLine + ", column " + t.beginColumn;
**/  
* Throw an exception if the expression passed in is a String  
* Literal  
*/
private void notStringLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof StringLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound string literal: " + exp
            + "\nExpecting: " + expected;
        throw new ParseException(msg, exp);
    }
}

/**  
* Throw an exception if the expression passed in is a Number  
* Literal  
*/
private void notNumberLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof NumberLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound number literal: " + exp.getCanonicalForm()
            + "\nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**  
* Throw an exception if the expression passed in is a boolean  
* Literal  
*/
private void notBooleanLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof BooleanLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound: " + exp.getCanonicalForm()
            + "\nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**  
* Throw an exception if the expression passed in is a Hash  
* Literal  
*/
private void notHashLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof HashLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound hash literal: " + exp.getCanonicalForm()
            + "\nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}
+ "unFound hash literal: " + exp.getCanonicalForm()
+ "unExpecting " + expected;
    throw new ParseException(msg, exp);
}
}
/**
 * Throw an exception if the expression passed in is a List
 * Literal
 */
private void notListLiteral(Expression exp, String expected)
throws ParseException
{
    if (exp instanceof ListLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "unFound list literal: " + exp.getCanonicalForm()
            + "unExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}
/**
 * Throw an exception if the expression passed in is a literal
 * other than of the numerical type
 */
private void numberLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}
/**
 * Throw an exception if the expression passed in is not a string.
 */
private void stringLiteralOnly(Expression exp) throws ParseException {
    notNumberLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}
/**
 * Throw an exception if the expression passed in is a literal
 * other than of the boolean type
 */
private void booleanLiteralOnly(Expression exp) throws ParseException {

private Expression escapedExpression(Expression exp) {
    if(!escapes.isEmpty()) {
        return ((EscapeBlock)escapes.getFirst()).doEscape(exp);
    }
    return exp;
}

private boolean getBoolean(Expression exp) throws ParseException {
    TemplateModel tm = null;
    try {
        tm = exp.getAsTemplateModel(null);
    } catch (Exception e) {
        throw new ParseException(e.getMessage()
            + "Could not evaluate expression: 
            + exp.getCanonicalForm()
            + exp.getStartLocation(), exp);
    }
    if (tm instanceof TemplateBooleanModel) {
        try {
            return ((TemplateBooleanModel) tm).getAsBoolean();
        } catch (TemplateModelException tme) {
        }
    }
    if (tm instanceof TemplateScalarModel) {
        try {
            return StringUtil.getYesNo(((TemplateScalarModel) tm).getAsString());
        } catch (Exception e) {
            throw new ParseException(e.getMessage()
                + "Expecting yes/no, found: " + exp.getCanonicalForm()
                + exp.getStartLocation(), exp);
        }
    }
    throw new ParseException("Expecting boolean (yes/no) parameter" + exp.getStartLocation(), exp);
}

PARSER_END(FMParser)

/**
 * The lexer portion defines 5 lexical states:
 * DEFAULT, FM_EXPRESSION, IN_PAREN, NO_PARSE, and EXPRESSION_COMMENT.
 * The DEFAULT state is when you are parsing
* text but are not inside a FreeMarker expression.
* FM_EXPRESSION is the state you are in
* when the parser wants a FreeMarker expression.
* IN_PAREN is almost identical really. The difference
* is that you are in this state when you are within
* FreeMarker expression and also within (...).
* This is a necessary subtlety because the
* ">" and "=>" symbols can only be used
* within parentheses because otherwise, it would
* be ambiguous with the end of a directive.
* So, for example, you enter the FM_EXPRESSION state
* right after a ${ and leave it after the matching }.
* Or, you enter the FM_EXPRESSION state right after
* an "<if" and then, when you hit the matching ">
* that ends the if directive.
* you go back to DEFAULT lexical state.
* If, within the FM_EXPRESSION state, you enter a
* parenthetical expression, you enter the IN_PAREN
* state.
* Note that whitespace is ignored in the
* FM_EXPRESSION and IN_PAREN states
* but is passed through to the parser as PCDATA in the DEFAULT state.
* NO_PARSE and EXPRESSION_COMMENT are extremely simple
* lexical states. NO_PARSE is when you are in a comment
* block and EXPRESSION_COMMENT is when you are in a comment
* that is within an FTL expression.
*/

TOKEN_MGR_DECLS :
{

/**
 The noparseTag is set when we enter
 a block of text that the parser more or less ignores.
 These are <noparse> and <comment>. This variable
tells us what the closing tag should be, and when
we hit that, we resume parsing. Note that with this
scheme, <comment> and <noparse> tags cannot nest
recursively, but it is not clear how important that is.
*/
 String noparseTag;

/**
 Keeps track of how deeply nested
 we have the hash literals.
 This is necessary since we need to be
 able to distinguish the } used to close
 a hash literal and the one used to
private int hashLiteralNesting;
private int parenthesisNesting;
private int bracketNesting;
private boolean inFTLHeader;
boolean strictEscapeSyntax,
onlyTextOutput,
altDirectiveSyntax,
autodetectTagSyntax,
directiveSyntaxEstablished,
inInvocation;
String templateName;

// This method checks if we are in a strict mode where all
// FreeMarker directives must start with <#

private void strictSyntaxCheck(Token tok, int newLexState) {
    if (onlyTextOutput) {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    char firstChar = tok.image.charAt(0);
    if (autodetectTagSyntax && !directiveSyntaxEstablished) {
        altDirectiveSyntax = (firstChar == '[');
    }
    if ((firstChar == '[' && !altDirectiveSyntax) || (firstChar == '<' && altDirectiveSyntax)) {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    if (!strictEscapeSyntax) {
        SwitchTo(newLexState);
        return;
    }
    if (!altDirectiveSyntax) {
        if (!tok.image.startsWith("<#") && !tok.image.startsWith("</#")) {
            tok.kind = PRINTABLE_CHARS;
            return;
        }
    }
    directiveSyntaxEstablished = true;
    SwitchTo(newLexState);
}

private void unifiedCall(Token tok) {
    char firstChar = tok.image.charAt(0);
    if (autodetectTagSyntax && !directiveSyntaxEstablished) {

altDirectiveSyntax = (firstChar == '\[');
}
if (altDirectiveSyntax && firstChar == '<') {
    tok.kind = PRINTABLE_CHARS;
    return;
}
if (!altDirectiveSyntax && firstChar == '\[') {
    tok.kind = PRINTABLE_CHARS;
    return;
}
directiveSyntaxEstablished = true;
SwitchTo(NO_SPACE_EXPRESSION);
}

private void unifiedCallEnd(Token tok) {
    char firstChar = tok.image.charAt(0);
    if (altDirectiveSyntax && firstChar == '<') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    if (!altDirectiveSyntax && firstChar == '\[') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
}

private void closeBracket(Token tok) {
    if (bracketNesting > 0) {
        --bracketNesting;
    } else {
        tok.kind = DIRECTIVE_END;
        if (inFTLHeader) {
            eatNewline();
            inFTLHeader = false;
        }
        SwitchTo(DEFAULT);
    }
}

private void eatNewline() {
    int charsRead = 0;
    try {
        while (true) {
            char c = input_stream.readChar();
            ++charsRead;
            if (!Character.isWhitespace(c)) {
                input_stream.backup(charsRead);
            }
        }
    }
private void ftlHeader(Token matchedToken) {
    if (!directiveSyntaxEstablished) {
        altDirectiveSyntax = matchedToken.image.charAt(0) == '[';
        directiveSyntaxEstablished = true;
        autodetectTagSyntax = false;
    }
    String img = matchedToken.image;
    char firstChar = img.charAt(0);
    char lastChar = img.charAt(img.length() -1);
    if ((firstChar == '[' && !altDirectiveSyntax) || (firstChar == '<' && altDirectiveSyntax)) {
        matchedToken.kind = PRINTABLE_CHARS;
    }
    if (matchedToken.kind != PRINTABLE_CHARS) {
        if (lastChar != '>' && lastChar != ']') {
            SwitchTo(FM_EXPRESSION);
            inFTLHeader = true;
        } else {
            eatNewline();
        }
    }
}

TOKEN:
{
    <#BLANK : [" ", "\t", "\n", "\r"]>
|
    <#START_TAG : "<" | "<#" | "[/#">
|
    <#END_TAG : ">" | "</#" | "/#/"
<CALL : <START_TAG> "call" <BLANK1>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|  
<SETTING : <START_TAG> "setting" <BLANK1>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|  
<COMPRESS : <START_TAG> "compress" <CLOSE_TAG11>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<COMMENT : <START_TAG> "comment" <CLOSE_TAG111>> {strictSyntaxCheck(matchedToken, NO_PARSE); noparseTag="comment";}
|  
<TERSE_COMMENT : ("<" | "[") "--" > {noparseTag = "-->"; strictSyntaxCheck(matchedToken, NO_PARSE);}
|  
<NOPARSE : <START_TAG> "noparse" <CLOSE_TAG1111>> {strictSyntaxCheck(matchedToken, NO_PARSE); noparseTag="noparse";}
|  
<END_IF : <END_TAG> "if" <CLOSE_TAG11111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_LIST : <END_TAG> "list" <CLOSE_TAG111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_RECOVER : <END_TAG> "recover" <CLOSE_TAG11111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_ATTEMPT : <END_TAG> "attempt" <CLOSE_TAG1111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_FOREACH : <END_TAG> "foreach" <CLOSE_TAG111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_LOCAL : <END_TAG> "local" <CLOSE_TAG11111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_GLOBAL : <END_TAG> "global" <CLOSE_TAG1111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_ASSIGN : <END_TAG> "assign" <CLOSE_TAG111111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_FUNCTION : <END_TAG> "function" <CLOSE_TAG111111111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_MACRO : <END_TAG> "macro" <CLOSE_TAG111111111111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_COMPRESS : <END_TAG> "compress" <CLOSE_TAG11111111111111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_TRANSFORM : <END_TAG> "transform" <CLOSE_TAG111111111111111111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  
<END_SWITCH : <END_TAG> "switch" <CLOSE_TAG1111111111111111111111111111111111>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|  

<DECIMAL : <INTEGER> "." <INTEGER>>
|<DOT : "." >
|<DOT_DOT : "." >
|<BUILT_IN : "?" >
|<EXISTS : "??" >
|<EQUALS : ":" >
|<DOUBLE_EQUALS : ":==" >
|<NOT_EQUALS : ":!=" >
|<LESS_THAN : "lt" | "\lt" | "<" | ";lt;" >
|<LESS_THAN_EQUALS : "lte" | "\lte" | "<=" | ";lte;" >
|<ESCAPED_GT: "gt" | "\gt" | ";gt;" >
|<ESCAPED_GTE : "gte" | "\gte" | "&gt;=" >
|<PLUS : "+" >
|<MINUS : "-" >
|<TIMES : "*" >
|<DOUBLE_STAR : "**" >
|<ELLIPSIS : "..." >
|<DIVIDE : ":/" >
|<PERCENT : "%" >
|<AND : ":&" | "&" | "&" >
|<OR : ":|" | "||" >
|<EXCLAM : "!" >
|<COMMA : "," >
|<SEMICOLON : ";;" >
"u00f8"-"u00ff",
"u0100"-"u1fff",
"u3040"-"u318f",
"u3300"-"u337f",
"u3400"-"u3d2d",
"u4e00"-"u9fff",
"uf900"-"ufaff"
] >
|
< #DIGIT:
|
[ "u0030"-"u0039",
 "u0060"-"u0069",
 "u006f"-"u0069",
 "u006f"-"u0069",
 "u0070"-"u0079",
 "u0079"-"u0079",
 "u007a"-"u007f",
 "u007f"-"u007f",
 "u0080"-"u0089",
 "u0089"-"u0089",
 "u0090"-"u0099",
 "u0099"-"u0099",
 "u009a"-"u009f",
 "u009f"-"u009f",
 "u00a0"-"u00a9",
 "u00a9"-"u00a9",
 "u00aa"-"u00ff",
 "u00ff"-"u00ff",
 "u0100"-"u1fff",
 "u1fff"-"u1fff",
 "u2700"-"u27ff",
 "u27ff"-"u27ff",
 "u4e00"-"u9fff",
 "u9fff"-"u9fff"
] >
|
<FM_EXPRESSION, NO_SPACE_EXPRESSION, NAMED_PARAMETER_EXPRESSION> TOKEN:
{
 <DIRECTIVE_END : ">""> 
{
     if (inFTLHeader) eatNewline();
     inFTLHeader = false;
     if (altDirectiveSyntax) {
         matchedToken.kind = NATURAL_GT;
     } else {
         SwitchTo(DEFAULT);
     }
 }
 |
<EMPTY_DIRECTIVE_END : "\"" | "\"]"> {if (inFTLHeader) eatNewline(); inFTLHeader = false; SwitchTo(DEFAULT);}
}
// Now the actual parsing code, starting
// with the productions for FreeMarker's
// expression syntax.

/**
 * This is the same as OrExpression, since
 * the OR is the operator with the lowest
 * precedence.
 */

Expression Expression() {
{
    Expression exp;
} {
    exp=OrExpression() {
        return exp;
    }
}

/**
 * Lowest level expression, a literal, a variable,
 * or a possibly more complex expression bounded
 * by parentheses.
 */

Expression PrimaryExpression() {
{ 
    Expression exp;
} {
    ( 
        exp=NumberLiteral() |
        exp=HashLiteral() |
        exp=StringLiteral(true) |
        exp=BooleanLiteral() |
        exp=ListLiteral() |
        exp=Identifier() |
        exp=Parenthesis()
}
exp=BuiltinVariable()
)
(LOOKAHEAD(<DOT>)
|<OPEN_BRACKET>
|<OPEN_PAREN>
|<BUILT_IN>
|<EXCLAM>
|<TERMINATING_EXCLAM>
|< EXISTS>
exp=AddSubExpression(exp)
)*
{
  return exp;
}
)

Expression Parenthesis() :
{
  Expression exp, result;
  Token start, end;
}
{
  start=<OPEN_PAREN>
  exp=Expression()
  end=<CLOSE_PAREN>
  {
    result = new ParentheticalExpression(exp);
    result.setLocation(template, start, end);
    return result;
  }

/**
 * A primary expression preceded by zero or
 * more unary operators. (The only unary operator we
 * currently have is the NOT.)
 */
Expression UnaryExpression() :
{
  Expression exp, result;
  boolean haveNot = false;
  Token t = null, start=null;
}
{
  (result=UnaryPlusMinusExpression()
result=NotExpression()
result=PrimaryExpression()
{
    return result;
}
/*
( t=<EXCLAM>
{
    haveNot = !haveNot;
    if (start == null)
        start = t;
}
)*
exp=PrimaryExpression()
{
    result = exp;
    if (haveNot) {
        booleanLiteralOnly(exp);
        result = new NotExpression(exp);
        result.setLocation(template, start, exp);
    }
    return result;
}
*/

Expression NotExpression() :
{
    Token t;
    Expression exp, result=null;
    ArrayList nots = new ArrayList();
}
{
    ( t=<EXCLAM> {nots.add(t);}
)+
exp=PrimaryExpression()
{
    for (int i=0; i<nots.size(); i++) {
        result = new NotExpression(exp);
        Token tok = (Token) nots.get(nots.size() -i -1);
        result.setLocation(template, tok, exp);
        exp = result;
    }
Expression UnaryPlusMinusExpression() :
{
Expression exp, result;
boolean isMinus = false;
Token t;
}
{
( ( t=<PLUS> 
|
 t=<MINUS> {isMinus = true;} )
) exp=PrimaryExpression()
{
result = new UnaryPlusMinusExpression(exp, isMinus);
result.setLocation(template, t, exp);
return result;
}
}

Expression AdditiveExpression() :
{
Expression lhs, rhs, result;
boolean plus;
}
{
lhs=MultiplicativeExpression() {result = lhs;}
( LOOKAHEAD(<PLUS>|<MINUS>)
( ( <PLUS> {plus = true;}
|
 <MINUS> {plus = false;}
 )
 )
)
rhs=MultiplicativeExpression()
{
if (plus) {
// plus is treated separately, since it is also
// used for concatenation.
result = new AddConcatExpression(lhs, rhs);
}
else {
numberLiteralOnly(lhs);
numberLiteralOnly(rhs);
result = new ArithmeticExpression(lhs,
        rhs,
        ArithmeticExpression.SUBTRACTION);
}
result.setLocation(template, lhs, rhs);
lhs = result;
}
)*
{
return result;
}

/**
 * A unary expression followed by zero or more
 * unary expressions with operators in between.
 */
Expression MultiplicativeExpression() :
{
    Expression lhs, rhs, result;
    int operation = ArithmeticExpression.MULTIPLICATION;
}
{
    lhs=UnaryExpression() {result = lhs;}
    (LOOKAHEAD(<TIMES>|<DIVIDE>|<PERCENT>))
    ( loginUser
g    ( <TIMES> {operation = ArithmeticExpression.MULTIPLICATION};
    | <DIVIDE> {operation = ArithmeticExpression.DIVISION};
    | <PERCENT> {operation = ArithmeticExpression.MODULUS};
    )
    rhs=UnaryExpression()
    {
        numberLiteralOnly(lhs);
        numberLiteralOnly(rhs);
        result = new ArithmeticExpression(lhs, rhs, operation);
        result setLocation(template, lhs, rhs);
        lhs = result;
    })*
    {
        return result;
    }
Expression EqualityExpression() :
{
    Expression lhs, rhs, result;
    Token t;
}
{
    lhs=RelationalExpression() {result = lhs;}
    |
    LOOKAHEAD(<NOT_EQUALS>|<EQUALS>|<DOUBLE_EQUALS>)
    (  
        t=<NOT_EQUALS> 
    |  
        t=<EQUALS> 
    |  
        t=<DOUBLE_EQUALS> 
    )
    rhs=RelationalExpression()
    {
        notHashLiteral(lhs, "scalar");
        notHashLiteral(rhs, "scalar");
        notListLiteral(lhs, "scalar");
        notListLiteral(rhs, "scalar");
        result = new ComparisonExpression(lhs, rhs, t.image);
        result.setLocation(template, lhs, rhs);
    }
    |
    return result;
}
}

Expression RelationalExpression() :
{
    Expression lhs, rhs, result;
    Token t;
}
{
    lhs=RangeExpression() {result = lhs;}
    |
    LOOKAHEAD(<NATURAL_GTE>|<ESCAPED_GTE>|<NATURAL_GT>|<ESCAPED_GT>|<LESS_THAN_EQUALS>|<LESS_THAN_EQUALS>|<LESS_THAN_EQUALS>|<LESS_THAN>)
    (  
        t=<NATURAL_GTE> 
    |  
        t=<ESCAPED_GTE> 
    |  
        t=<NATURAL_GT> 
    |  
        t=<ESCAPED_GT> 
    |  
        t=<LESS_THAN_EQUALS> 
    |  
        t=<LESS_THAN_EQUALS> 
    |  
        t=<LESS_THAN> 
    )
Expression RangeExpression() :
{
   Expression lhs, rhs=null, result;
}
{
   lhs=AdditiveExpression() {result = lhs;}
   [ LOOKAHEAD(<DOT_DOT>)
     <DOT_DOT>
     [ LOOKAHEAD(Expression())
       rhs=AdditiveExpression()
     ]
   ]
   numberLiteralOnly(lhs);
   if (rhs != null) {
      numberLiteralOnly(rhs);
   }
   Range range = new Range(lhs, rhs);
   if (rhs != null) {
      range.setLocation(template, lhs, rhs);
   }
}
Expression AndExpression() :
{
    Expression lhs, rhs, result;
}
{

    lhs=EqualityExpression() {result = lhs;}
    (LOOKAHEAD(<AND>)
    <AND>
    rhs=EqualityExpression()
    {
        booleanLiteralOnly(lhs);
        booleanLiteralOnly(rhs);
        result = new AndExpression(lhs, rhs);
        result.setLocation(template, lhs, rhs);
        lhs = result;
    }
)*
{
    return result;
}
}

Expression OrExpression() :
{
    Expression lhs, rhs, result;
}
{

    lhs=AndExpression() {result = lhs;}
    (LOOKAHEAD(<OR>)
    <OR>
    rhs=AndExpression()
    {
    }
booleanLiteralOnly(lhs);
booleanLiteralOnly(rhs);
result = new OrExpression(lhs, rhs);
result.setLocation(template, lhs, rhs);
lhs = result;
}
}*
{
return result;
}

ListLiteral ListLiteral() :
{
ArrayList values = new ArrayList();
Token begin, end;
}
{
begin=<OPEN_BRACKET>
values=PositionalArgs()
end=<CLOSE_BRACKET>
{
ListLiteral result = new ListLiteral(values);
result.setLocation(template, begin, end);\nreturn result;
}

Expression NumberLiteral() :
{
Token op = null, t;
}
{
(t=<INTEGER>
|t=<DECIMAL>)
{
String s = t.image;
Expression result = new NumberLiteral(template.getArithmeticEngine().toNumber(s));
Token startToken = (op != null) ? op : t;
result.setLocation(template, startToken, t);
return result;
}

Identifier Identifier():
{Token t;
{
        t=<ID>
        {
                Identifier id = new Identifier(t.image);
                id.setLocation(template, t, t);
                return id;
        }
}

Expression IdentifierOrStringLiteral() :
{
        Expression exp;
        {
                (exp=Identifier()
                        |
                exp=StringLiteral(false)
                )
                {
                        return exp;
                }
        }

BuiltinVariable BuiltinVariable() :
{
        Token dot, name;
        {
                dot=<DOT>
                name=<ID>
                {
                        BuiltinVariable result = null;
                        try {
                                result = new BuiltinVariable(name.image);
                        } catch (ParseException pe) {
                                pe.lineNumber = dot.beginLine;
                                pe.columnNumber = dot.beginColumn;
                                throw pe;
                        }
                        result.setLocation(template, dot, name);
                        return result;
                }
        }
/**
 * Production that builds up an expression
 * using the dot or dynamic key name
 * or the args list if this is a method invocation.
 */
Expression AddSubExpression(Expression exp) {
    Expression result = null;
    {
       result=DotVariable(exp) 
       | result=DynamicKey(exp) 
       | result=MethodArgs(exp) 
       | result=BuiltIn(exp) 
       | result=DefaultTo(exp) 
       | result=Exists(exp)
    }
    return result;
    }
}

Expression DefaultTo(Expression exp) {
    Expression rhs = null;
    Token t;
    {
       ( 
       t=<TERMINATING_EXCLAM>
       | 
       t=<EXCLAM> 
       [ 
       LOOKAHEAD(Expression()) 
       rhs=Expression()
       ]
       )
        )
    } 
    { 
    DefaultToExpression result = new DefaultToExpression(exp, rhs); 
    if (rhs ==null) { 

result.setLocation(template, exp, t);
}
else {
    result.setLocation(template, exp, rhs);
    return result;
}

Expression Exists(Expression exp) :
{
    Token t;
}
{
    t=<EXISTS>
    {
        ExistsExpression result = new ExistsExpression(exp);
        result.setLocation(template, exp, t);
        return result;
    }
}

Expression BuiltIn(Expression exp) :
{
    Token t=null;
}
{
    <BUILT_IN>
    t=<ID>
    {
        BuiltIn result = null;
        try {
            result = BuiltIn.newBuiltIn(exp, t.image, t, templateName);
        } catch (ParseException pe) {
            pe.lineNumber = t.beginLine;
            pe.columnNumber = t.beginColumn;
            throw pe;
        }
        result.setLocation(template, exp, t);
        return result;
    }
}

/**
 * production for when a key is specified by <DOT> + keyname
 */
Expression DotVariable(Expression exp) :
{Token t;
}

<DOT>
(
  t=<ID> | t=<TIMES> | t=<DOUBLE_STAR>
  |
  (t=<LESS_THAN>
   | t=<LESS_THAN_EQUALS>
   | t=<ESCAPED_GT>
   | t=<ESCAPED_GTE>
   | t=<FALSE>
   | t=<TRUE>
   | t=<IN>
   | t=<AS>
   | t=<USING>
  )
  if (!Character.isLetter(t.image.charAt(0))) {
    String msg = getErrorStart(t) + 
      "n" + t.image + " is not a valid identifier.";
    throw new ParseException(msg, t.beginLine, t.beginColumn);
  }
}

notListLiteral(exp, "hash");
notStringLiteral(exp, "hash");
notBooleanLiteral(exp, "hash");
Dot dot = new Dot(exp, t.image);
dot.setLocation(template, exp, t);
return dot;
}

/**
 * production for when the key is specified
 * in brackets.
 */
Expression DynamicKey(Expression exp) :
  {
    Expression arg;
    Token t;
  }
  {
    <OPEN_BRACKET>
arg=Expression()
t=<CLOSE_BRACKET>
{
    notBooleanLiteral(exp, "list or hash");
    notNumberLiteral(exp, "list or hash");
    DynamicKeyName dkn = new DynamicKeyName(exp, arg);
    dkn.setLocation(template, exp, t);
    return dkn;
}

/**
 * production for an arglist part of a method invocation.
 */
MethodCall MethodArgs(Expression exp) :
{
    ArrayList args = new ArrayList();
    Token end;
}
{
    <OPEN_PAREN>
    args=PositionalArgs()
    end=<CLOSE_PAREN>
    {
        args.trimToSize();
        MethodCall result = new MethodCall(exp, args);
        result.setLocation(template, exp, end);
        return result;
    }
}

StringLiteral StringLiteral(boolean interpolate) :
{
    Token t;
    boolean raw = false;
}
{
    (t=<STRING_LITERAL>
     | t=<RAW_STRING> {raw = true;})
    {
        String s = t.image;
        // Get rid of the quotes.
        s = s.substring(1, s.length() -1);
        if (raw) {
            s=s.substring(1);
else try {
    s = StringUtil.FTLStringLiteralDec(s);
} catch (ParseException pe) {
    pe.lineNumber = t.beginLine;
    pe.columnNumber = t.beginColumn;
    throw pe;
}

StringLiteral result = new StringLiteral(s);
result.setLocation(template, t, t);
if (interpolate && !raw) {
    if (t.image.indexOf("${") >=0 || t.image.indexOf("#{") >=0)
        result.checkInterpolation();
    }
    return result;
}
}

Expression BooleanLiteral() :
{
    Token t;
    Expression result;
}
{
    (t=<FALSE> {result = new BooleanLiteral(false);}
    |
    t=<TRUE> {result = new BooleanLiteral(true);})
    {
        result.setLocation(template, t, t);
        return result;
    }
}

HashLiteral HashLiteral() :
{
    Token begin, end;
    Expression key, value;
    ArrayList keys = new ArrayList();
    ArrayList values = new ArrayList();
}
{
    begin=<OPEN_BRACE>
    [
        key=Expression()
        (<COMMA>|<COLON>)
value=Expression()
{
    stringLiteralOnly(key);
    keys.add(key);
    values.add(value);
}
(
    key=Expression()
    (<COMMA>)
    value=Expression()
    {
        stringLiteralOnly(key);
        keys.add(key);
        values.add(value);
    })*
]
end=<CLOSE_BRACE>
{
    HashLiteral result = new HashLiteral(keys, values);
    result.setLocation(template, begin, end);
    return result;
}

/**
 * A production representing the ${...}
 * that outputs a variable.
 */
DollarVariable StringOutput()
{
    Expression exp;
    Token begin, end;
}
{
    begin=<OUTPUT_ESCAPE>
    exp=Expression()
    {
        notHashLiteral(exp, "scalar");
        notListLiteral(exp, "scalar");
        notBooleanLiteral(exp, "scalar");
    } end=<CLOSE_BRACE>
    {
        DollarVariable result = new DollarVariable(exp, escapedExpression(exp));
        result.setLocation(template, begin, end);
        return result;
    }
NumericalOutput NumericalOutput()
{
    Expression exp;
    Token fmt = null, begin, end;
}
{
    begin=<NUMERICAL_ESCAPE>
    exp=Expression() {numberLiteralOnly(exp);}
[
    <SEMICOLON>
    fmt=<ID>
]
    end=<CLOSE_BRACE>
{
    NumericalOutput result;
    if (fmt != null) {
        int minFrac = -1;  // -1 indicates that the value has not been set
        int maxFrac = -1;

        StringTokenizer st = new StringTokenizer(fmt.image, "mM", true);
        char type = '-';
        while (st.hasMoreTokens()) {
            String token = st.nextToken();
            try {
                if (type != '-') {
                    switch (type) {
                        case 'm':
                            if (minFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
                                fmt.beginColumn);
                            minFrac = Integer.parseInt(token);
                            break;
                        case 'M':
                            if (maxFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
                                fmt.beginColumn);
                            maxFrac = Integer.parseInt(token);
                            break;
                        default:
                            throw new ParseException();
                    }
                    type = '-';
                } else if (token.equals("m")) {
                    type = 'm';
                } else if (token.equals("M")) {
                    type = 'M';
                } else {
.
throw new ParseException();
}
}
catch (ParseException e) {
    String msg = getErrorStart(fmt)
        + "\nInvalid format specifier 
        + fmt.image;
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
catch (NumberFormatException e) {
    String msg = getErrorStart(fmt)
        + "\nInvalid number in the format specifier 
        + fmt.image;
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
}

if (maxFrac == -1) {
    if (minFrac == -1) {
        String msg = getErrorStart(fmt)
            + "\nInvalid format specification, at least one of m and M must be specified!";
        throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
    }
    maxFrac = minFrac;
} else if (minFrac == -1) {
    minFrac = 0;
}

if (minFrac > maxFrac) {
    String msg = getErrorStart(fmt)
        + "\nInvalid format specification, min cannot be greater than max!";
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
if (minFrac > 50 || maxFrac > 50) {// sanity check
    String msg = getErrorStart(fmt)
        + "\nCannot specify more than 50 fraction digits";
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
result = new NumericalOutput(exp, minFrac, maxFrac);
} else { // if format != null
    result = new NumericalOutput(exp);
}
result.setLocation(template, begin, end);
return result;
}

TemplateElement If() :
{

Token start, end, t;
Expression condition;
TemplateElement block;
IfBlock ifBlock;
ConditionalBlock cblock;
}
{
start=<IF>
condition=Expression()
<DIRECTIVE_END>
block=OptionalBlock()
{

cblock = new ConditionalBlock(condition, block, true);
cblock.setLocation(template, start, block);
ifBlock = new IfBlock(cblock);
}
(

t=<ELSE_IF>
condition=Expression()
LooseDirectiveEnd()
block=OptionalBlock()
{

cblock = new ConditionalBlock(condition, block, false);
cblock.setLocation(template, t, block);
ifBlock.addBlock(cblock);
}
)*
[

t=<ELSE>
block=OptionalBlock()
{

cblock = new ConditionalBlock(null, block, false);
cblock.setLocation(template, t, block);
ifBlock.addBlock(cblock);
}
]
end=<END_IF>
{
ifBlock.setLocation(template, start, end);
return ifBlock;
}
}

AttemptBlock Attempt() :
{
Token start, end;
TemplateElement block, recoveryBlock;
}
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```java
{  
  start=<ATTEMPT>
  block=OptionalBlock()
  recoveryBlock=Recover()
  (  
    end=<END_RECOVER>
    |  
    end=<END_ATTEMPT>
  )
  {  
    AttemptBlock result = new AttemptBlock(block, recoveryBlock);
    result.setLocation(template, start, end);
    return result;
  }
}

RecoveryBlock Recover():
{  
  Token start;
  TemplateElement block;
}
{  
  start=<RECOVER>
  block=OptionalBlock()
  {  
    RecoveryBlock result = new RecoveryBlock(block);
    result.setLocation(template, start, block);
    return result;
  }
}

IteratorBlock List():
{  
  Expression exp;
  Token index, start, end;
  TemplateElement block;
}
{  
  start=<LIST> {++loopNesting;}
  exp=Expression()
  <AS>
  index=<ID>
  <DIRECTIVE_END>
  block=OptionalBlock()
  end=<END_LIST>
  {  
    --loopNesting;
    IteratorBlock result = new IteratorBlock(exp,
index.image,
    block,
false);
result.setLocation(template, start, end);
return result;
}
}

IteratorBlock ForEach() :
{
    Expression exp;
    Token index, start, end;
    TemplateElement block;
}
{
    start=<FOREACH> {++loopNesting;}
    index=<ID>
    <IN>
    exp=Expression()
    <DIRECTIVE_END>
    block=OptionalBlock()
    end=<END_FOREACH>
    {
        --loopNesting;
        IteratorBlock result = new IteratorBlock(exp,
                                             index.image,
                                             block,
                                             true);
        result.setLocation(template, start, end);
        return result;
    }
}

VisitNode Visit() :
{
    Token start, end;
    Expression targetNode, namespaces=null;
}
{
    start=<VISIT>
    targetNode=Expression()
    |
    <USING>
    namespaces=Expression()
    |
    end=LooseDirectiveEnd()
    |
    VisitNode result = new VisitNode(targetNode, namespaces);
result.setLocation(template, start, end);
return result;
}

RecurseNode Recurse() {
  Token start, end = null;
  Expression node=null, namespaces=null;
  {
    (start=<SIMPLE_RECURSE> |
      (start=<RECURSE>
        [ node=Expression() ]
        [
          <USING>
            namespaces=Expression()
          ]
          end=LooseDirectiveEnd()
        )
      )
    )
    if (end == null) end = start;
    RecurseNode result = new RecurseNode(node, namespaces);
    result.setLocation(template, start, end);
    return result;
  }
}

FallbackInstruction FallBack() {
  Token tok;
  (tok=<FALLBACK> {
    if (!inMacro) {
      throw new ParseException(getErrorStart(tok)
        + "Cannot fall back 
        " outside a macro.",
        tok.beginLine, tok.beginColumn);
    } else {
      ...
    }
  })
}
FallbackInstruction result = new FallbackInstruction();
result.setLocation(template, tok, tok);
return result;
}

/**
* Production used to break out of a loop or a switch block.
*/
BreakInstruction Break() :
{
Token start;
}
{
start=<BREAK>
{
if (loopNesting < 1 && switchNesting <1)
{
String msg = getErrorStart(start) + "un" + start.image + " occurred outside a loop or a switch block.";
throw new ParseException(msg, start.beginLine, start.beginColumn);
}
BreakInstruction result = new BreakInstruction();
result.setLocation(template, start, start);
return result;
}

/**
* Production used to jump out of a macro.
* The stop instruction terminates the rendering of the template.
*/
ReturnInstruction Return() :
{
Token start, end=null;
Expression exp = null;
}
{
(

start=<SIMPLE_RETURN>{end = start;}
|
start=<RETURN> exp=Expression() end=LooseDirectiveEnd()
)

if (inMacro) {

if (exp != null) {

String msg = getErrorStart(start)
A macro cannot return a value;
throw new ParseException(msg, start.beginLine, start.beginColumn);
}
}
else if (inFunction) {
    if (exp == null) {
        String msg = getErrorStart(start)
            + "A function must return a value"
            ;
        throw new ParseException(msg, start.beginLine, start.beginColumn);
    }
}
}
else {
    if (exp == null) {
        String msg = getErrorStart(start)
            + "A return instruction can only occur inside a macro of function"
            ;
        throw new ParseException(msg, start.beginLine, start.beginColumn);
    }
    }
    ReturnInstruction result = new ReturnInstruction(exp);
    result.setLocation(template, start, end);
    return result;
}
}

StopInstruction Stop() :
{
    Token start = null;
    Expression exp = null;
}
{
    (start=<HALT>
     | start=<STOP> exp=Expression() LooseDirectiveEnd()
    )
    StopInstruction result = new StopInstruction(exp);
    result.setLocation(template, start, start);
    return result;
}
}

TemplateElement Nested() :
{
    Token t, end;
    ArrayList bodyParameters;
    BodyInstruction result = null;
}
```java
{
  (  
    t=<SIMPLE_NESTED>
  
    result = new BodyInstruction(null);
    result.setLocation(template, t, t);
  }
}

| (  
| t=<NESTED>
| bodyParameters=PositionalArgs()
| end=LooseDirectiveEnd()
|  
| result = new BodyInstruction(bodyParameters);
| result.setLocation(template, t, end);
| }

if (!inMacro) {
  throw new ParseException(getErrorStart(t)
      + "Cannot use a ",
      + t.image
      + " instruction outside a macro.",
      t.beginLine, t.beginColumn);
}
return result;
}

TemplateElement Flush() :
{
  Token t;
  }
  
  t=<FLUSH>
  
  FlushInstruction result = new FlushInstruction();
  result.setLocation(template, t, t);
  return result;
  }

TemplateElement Trim() :
{
  Token t;
```
TrimInstruction result = null;
{
{
  (t=<TRIM> {result = new TrimInstruction(true, true);} |
    t=<LTRIM> {result = new TrimInstruction(true, false);} |
    t=<RTRIM> {result = new TrimInstruction(false, true);} |
    t=<NOTRIM> {result = new TrimInstruction(false, false);}) |
  result.setLocation(template, t, t); return result;
}

TemplateElement Assign() : 
{
  Token start, end;
  int scope;
  Token id = null;
  Expression nameExp, exp, nsExp = null;
  String varName;
  ArrayList assignments = new ArrayList();
  Assignment ass;
  TemplateElement block;
} 
{
  (start=<ASSIGN> {scope = Assignment.NAMESPACE;}) |
    start=<GLOBALASSIGN> {scope = Assignment.GLOBAL;} |
    start=<LOCALASSIGN> {scope = Assignment.LOCAL;}
  {
    scope = Assignment.LOCAL;
    if (!inMacro && !inFunction) {
      String msg = getErrorStart(start) + "Local variable assigned outside a macro."
      throw new ParseException(msg, start.beginLine, start.beginColumn);
    }
  } |
  nameExp=IdentifierOrStringLiteral()
varName = (nameExp instanceof StringLiteral) ? ((String Literal) nameExp).getAsString() : nameExp.toString();
}
((
  <EQUALS>
  exp=Expression()
  {
    ass = new Assignment(varName, exp, scope);
    ass.setLocation(template, nameExp, exp);
    assignments.add(ass);
  }
  (LOOKAHEAD([<COMMA>](<ID>|<STRING_LITERAL>)[<EQUALS>])
    [<COMMA>]
    nameExp=IdentifierOrStringLiteral()
    {
      varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
    }
    <EQUALS>
    exp=Expression()
    {
      ass = new Assignment(varName, exp, scope);
      ass.setLocation(template, nameExp, exp);
      assignments.add(ass);
    }
  )*)
  [
    id=<IN>
    nsExp=Expression() {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) +
      "Cannot assign to namespace here.", id.beginLine, id.beginColumn};}
  ]
  end=LooseDirectiveEnd()
  {
    AssignmentInstruction ai = new AssignmentInstruction(scope);
    for (int i = 0; i < assignments.size(); i++) {
      ai.addAssignment((Assignment) assignments.get(i));
    }
    ai.setNamespaceExp(nsExp);
    ai.setLocation(template, start, end);
    return ai;
  }
)
[
  [
    id=<IN>
    nsExp=Expression() {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) +
      "Cannot assign to namespace here.", id.beginLine, id.beginColumn};}
Include Include():
{
Expression nameExp;
Token att, start, end;
Expression exp, parseExp = null, encodingExp = null;
}
{
start=<_INCLUDE>
nameExp=Expression()
[<SEMICOLON>]
{
att=<ID>
<EQUALS>
exp=Expression()
{
String attString = att.image;
if (attString.equalsIgnoreCase("parse")) {
    parseExp = exp;
}
else if (attString.equalsIgnoreCase("encoding")) {
    encodingExp = exp;
}
else {
    String msg = getErrorStart(att)
        + "nexpecting parse= or encoding= to be specified."
    throw new ParseException(msg, att.beginLine, att.beginColumn);
}
LibraryLoad Import() :
{
    Token start, end, ns;
    Expression nameExp;
}
{
    start=<IMPORT>
    nameExp=Expression()
    <AS>
    ns=<ID>
    end=LooseDirectiveEnd()
{
        LibraryLoad result = new LibraryLoad(template, nameExp, ns.image);
        result.setLocation(template, start, end);
        template.addImport(result);
        return result;
    }
}

Macro Macro() :
{
    Token arg, start, end;
    Expression nameExp;
    String name;
    ArrayList argNames = new ArrayList();
    HashMap args = new HashMap();
    ArrayList defNames = new ArrayList();
    Expression defValue=null;
    TemplateElement block;
    boolean isFunction = false, hasDefaults=false;
    boolean isCatchAll = false;
    String catchAll = null;
}
{
    (  
        start=<MACRO>
        |
        start=<FUNCTION> {isFunction = true;}
    )
if (inMacro || inFunction) {
    throw new ParseException(getErrorStart(start)
        + "Macros cannot be nested.", start.beginLine, start.endLine);
}
if (isFunction) inFunction = true; else inMacro = true;

nameExp=IdentifierOrStringLiteral()
{
    name = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
}

[<OPEN_PAREN>]

(arg=<ID> {defValue = null;})
[<ELLIPSIS> { isCatchAll = true; }]
[<EQUALS>
    defValue=Expression()
    {
        defNames.add(arg.image);
        hasDefaults = true;
    }
[<COMMA>]

if (catchAll != null) {
    throw new ParseException(getErrorStart(arg)
        + "There may only be one \"catch-all\" parameter in a macro declaration, ",
        + "and it must be the last parameter.", arg.beginLine, arg.endLine);
}
if (isCatchAll) {
    if (defValue != null) {
        throw new ParseException(getErrorStart(arg)
            + "\"Catch-all\" macro parameter may not have a default value.",
            arg.beginLine, arg.endLine);
    }
    catchAll = arg.image;
} else {
    argNames.add(arg.image);
    if (hasDefaults && defValue == null) {
        throw new ParseException(getErrorStart(arg)
            + "In a macro declaration, parameters without a default value ",
            + "must all occur before the parameters with default values.",
            arg.beginLine, arg.endLine);
    }
    args.put(arg.image, defValue);
}
CompressedBlock Compress() :
{
    TemplateElement block;
    Token start, end;
}
{
    start=<COMPRESS>
    block=OptionalBlock()
    end=<END_COMPRESS>
    {
        CompressedBlock cb = new CompressedBlock(block);
        cb.setLocation(template, start, end);
        return cb;
    }
}

TemplateElement UnifiedMacroTransform() :
{
    Token start=null, end, t;
    HashMap namedArgs = null;
    ArrayList positionalArgs = null, bodyParameters = null;
    String directiveName = null;
    TemplateElement nestedBlock = null;
    Expression exp;
```java
start=<UNIFIED_CALL>
exp=Expression()
{
    if (exp instanceof Identifier || (exp instanceof Dot && ((Dot) exp).onlyHasIdentifiers())) {
        directiveName = exp.getCanonicalForm();
    }
}

[<TERMINATING_WHITESPACE>]
(LOOKAHEAD(<ID><EQUALS>)
namedArgs = NamedArgs()
|positionalArgs=PositionalArgs()
)
[
<SEMICOLON>{bodyParameters = new ArrayList();}
[
[<TERMINATING_WHITESPACE>]t=<ID> {bodyParameters.add(t.image);}
(->[<TERMINATING_WHITESPACE>]COMMA->[<TERMINATING_WHITESPACE>]t = <ID>{bodyParameters.add(t.image);}
*)
]
]
end=<EMPTY DIRECTIVE_END>
|
<DIRECTIVE_END>
nestedBlock=OptionalBlock()
end=<UNIFIED_CALL_END>
{
    String s = end.image.substring(3);
s = s.substring(0, s.length()-1).trim();
if (s.length()>0 & & s.equals(directiveName)) {
    String msg = getErrorStart(end);
    if (directiveName == null) {
        throw new ParseException(msg + "unExpecting </@>", end.beginLine, end.beginColumn);
    }
    else {
        throw new ParseException(msg + "unExpecting </@> or </@" + directiveName + ">", end.beginLine, end.beginColumn);
    }
}
```
TemplateElement result = (positionalArgs != null) ? new UnifiedCall(exp, positionalArgs, nestedBlock, bodyParameters)
: new UnifiedCall(exp, namedArgs, nestedBlock, bodyParameters);
result.setLocation(template, start, end);
return result;
}

TemplateElement Call() :
{
Token start, end, id;
HashMap namedArgs = null;
ArrayList positionalArgs = null;
String macroName= null;
start=<CALL>

id=<ID> {macroName = id.image;}

LOOKAHEAD(<ID><EQUALS>)
namedArgs=NamedArgs()
|
[

LOOKAHEAD(<OPEN_PAREN>)

<OPEN_PAREN>
]
positionalArgs=PositionalArgs()
[<CLOSE_PAREN>]
)
end=LooseDirectiveEnd()

UnifiedCall result = null;
if (positionalArgs != null) {
    result = new UnifiedCall(new Identifier(macroName), positionalArgs, null, null);
}
else {
    result = new UnifiedCall(new Identifier(macroName), namedArgs, null, null);
}
result.legacySyntax = true;
result.setLocation(template, start, end);
return result;
}
HashMap NamedArgs() :
{
    HashMap result = new HashMap();
    Token t;
    Expression exp;
}
{
    (t=<ID>
     <EQUALS>
    )
    { token_source.SwitchTo(token_source.NAMED_PARAMETER_EXPRESSION);
      token_source.inInvocation = true;
      exp=Expression()
      { result.put(t.image, exp);
      }
    )+
    { token_source.inInvocation = false;
      return result;
    }
}

ArrayList PositionalArgs() :
{
    ArrayList result = new ArrayList();
    Expression arg;
}
{
    [arg=Expression() {result.add(arg);}
     [<COMMA>]
     arg=Expression() {result.add(arg);}
    )*
    ]
    { return result;
    }
}

Comment Comment() :
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
TextBlock NoParse() :
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
}

start=<NOPARSE>
end=UnparsedContent(buf)
{
    TextBlock result = new TextBlock(buf.toString(), true);
    result.setLocation(template, start, end);
    return result;
}

TransformBlock Transform() :
{
    Token start, end, argName;
    Expression exp, argExp;
    TemplateElement content = null;
    HashMap args = null;
}

start=<TRANSFORM>
exp=Expression()
[<SEMICOLON>]
(
    argName=<ID>
    <EQUALS>
    argExp = Expression()
{
    if (args == null) args = new HashMap();
args.put(argName.image, argExp);
}
)*
(end=<EMPTY_DIRECTIVE_END>
| (<DIRECTIVE_END>content=OptionalBlock(end=<END_TRANSFORM>)
)

TransformBlock result = new TransformBlock(exp, args, content);
result.setLocation(template, start, end);
return result;
}

SwitchBlock Switch() :
{
    SwitchBlock switchBlock;
    Case caseIns;
    Expression switchExp;
    Token start, end;
    boolean defaultFound = false;
}
{ start=<SWITCH>
    switchExp=Expression()
    <DIRECTIVE_END>
    { ++switchNesting;
        switchBlock = new SwitchBlock(switchExp);
    }
    ( LOOKAHEAD(2)
    caseIns=Case()
    { if (caseIns.isDefault) {
        if (defaultFound) {
            String msg = getErrorStart(start)
            + "You can only have one default case in a switch statement";
            throw new ParseException(msg, start.beginLine, start.beginColumn);
        }
        defaultFound = true;
    }
    switchBlock.addCase(caseIns);
    }
    )* [<WHITESPACE>]
    end=<END_SWITCH>
--switchNesting;
switchBlock.setLocation(template, start, end);
return switchBlock;
}

Case Case() :
{
Expression exp = null;
TemplateElement block;
boolean isDefault = false;
Token start;
}
{

[<WHITESPACE>]

( start=<CASE>exp=Expression()<DIRECTIVE_END>
 | start=<DEFAULT> {isDefault = true;}
)
block=OptionalBlock()
{
 Case result = new Case(exp, block, isDefault);
 result.setLocation(template, start, block);
 return result;
}
}

EscapeBlock Escape() :
{
Token variable, start, end;
Expression escapeExpr;
TemplateElement content;
}
{
start=<ESCAPE>
variable=<ID>
<AS>
escapeExpr=Expression()<DIRECTIVE_END>
{
 EscapeBlock result = new EscapeBlock(variable.image, escapeExpr, escapedExpression(escapeExpr));
 escapes.addFirst(result);
}
content=OptionalBlock()
{
 result.setContent(content);
escapes.removeFirst();
)
end=<END_ESCAPE>
{
    result.setLocation(template, start, end);
    return result;
}

NoEscapeBlock NoEscape() :
{
    Token start, end;
    TemplateElement content;
}
{
    start=<NOESCAPE>
    {
        if(escapes.isEmpty()) {
            String msg = getErrorStart(start)
                + "noescape with no matching escape encountered.;"
            throw new ParseException(msg, start.beginLine, start.beginColumn);
        }
        Object escape = escapes.removeFirst();
    }
    content=OptionalBlock()
    end=<END_NOESCAPE>
    {
        escapes.addFirst(escape);
        NoEscapeBlock result = new NoEscapeBlock(content);
        result.setLocation(template, start, end);
        return result;
    }
}

/**
 * Production to terminate potentially empty elements. Either a ">" or "/>"
 */

Token LooseDirectiveEnd() :
{
    Token t;
}
{  
  return t;
}

PropertySetting Setting() :  
{  
  Token start, end, key;  
  Expression value;
}
{  
  start=<SETTING>  
  key=<ID>  
  <EQUALS>  
  value=Expression()  
  end=LooseDirectiveEnd()  
  {  
    PropertySetting result = new PropertySetting(key.image, value);  
    result.setLocation(template, start, end);  
    return result;
  }
}

/**
 * A production for FreeMarker directives.
 */
TemplateElement FreemarkerDirective() :  
{  
  TemplateElement tp;
}
{  
  (  
    tp=If()  
    |  
    tp=List()  
    |  
    tp=ForEach()  
    |  
    tp=Assign()  
    |  
    tp=Include()  
    |  
    tp=Import()  
    |  
    tp=Macro()  
    |  
    tp=Compress()  
    |  

}
tp=UnifiedMacroTransform()
|
 tp=Call()
|
 tp=Comment()
|
 tp=NoParse()
|
 tp=Transform()
|
 tp=Switch()
|
 tp=Setting()
 |
 tp=Break()
|
 tp=Return()
|
 tp=Stop()
|
 tp=Flush()
|
 tp=Trim()
 |
 tp=Nested()
 |
 tp=Escape()
 |
 tp=NoEscape()
 |
 tp=Visit()
 |
 tp=Recurse()
 |
 tp=FallBack()
 |
 tp=Attempt()
)
{
    return tp;
}

/**
 * Production for a block of raw text
 * i.e. text that contains no
 * FreeMarker directives.
 */
TextBlock PCData() {
{
    StringBuffer buf = new StringBuffer();
    Token t=null, start=null, prevToken = null;
}
{
    (LOOKAHEAD(<WHITESPACE>|<PRINTABLE_CHARS>|<FALSE_ALERT>)
    {
        [prevToken = t;]
        t=<WHITESPACE>
    |
    t=<PRINTABLE_CHARS>
    |
    t=<FALSE_ALERT>
    )
    {
        buf.append(t.image);
        if (start == null) start = t;
        [if (prevToken != null) prevToken.next = null;]
    }
    }+
    ]{
        if (stripText && contentNesting == 1)
            return TextBlock.EMPTY_BLOCK;
        TextBlock result = new TextBlock(buf.toString(), false);
        result.setLocation(template, start, t);
        return result;
    }
}

/**
 * Production for dealing with unparsed content,
 * i.e. what is inside a comment or noparse tag.
 * It returns the ending token. The content
 * of the tag is put in buf.
 */

Token UnparsedContent(StringBuffer buf) {
{
    Token t;
}
{
    ((t=<KEEP_GOING> | t=<MAYBE_END> | t=<TERSE_COMMENT_END> |
    t=<LONE_LESS_THAN_OR_DASH>)
    {  

buf.append(t.image);
})+
{
    buf.setLength(buf.length() - t.image.length());
    return t;
}
}

TemplateElement Content() :
{
    MixedContent nodes = new MixedContent();
    TemplateElement elem, begin=null;
    contentNesting++;
}
{
    (LOOKAHEAD(1) // Just tells javacc that we know what we're doing.
    (elem=PCData() |
        elem=StringOutput() |
        elem=NumericalOutput() |
        elem=FreemarkerDirective())
    {
        if (begin == null) {
            begin = elem;
        }
        nodes.addElement(elem);
    }
    )+
    {
        contentNesting--;
        nodes.setLocation(template, begin, elem);
        return nodes;
    }
}

/**
 * A production freemarker text that may contain
 * $ {...} and # {...} but no directives.
 */

TemplateElement FreeMarkerText() :
{
    MixedContent nodes = new MixedContent();
}
TemplateElement elem, begin = null;
}
{
(
	elem=PCData()
|
	elem=StringOutput()
|
	elem=NumericalOutput()
)
{
	if (begin == null) {
		begin = elem;
	}
	nodes.addElement(elem);
}
)+
{
	nodes setLocation(template, begin, elem);
	return nodes;
}
}

/**
* A production for a block of optional content.
* Returns an empty Text block if there is no
* content.
*/

TemplateElement OptionalBlock() {
|
TemplateElement tp = TextBlock.EMPTY_BLOCK;
}
{
|
LOOKAHEAD(1) // has no effect but to get rid of a spurious warning.
	tp=Content()
|
	return tp;
}
}

void HeaderElement() {
|
Token key;
Expression exp = null;}
String vs = null;
    if (value instanceof TemplateScalarModel) {
        try {
            vs = ((TemplateScalarModel) exp).getAsString();
        } catch (TemplateModelException tme) {}  
    }
    if (template != null) {
        if (ks.equalsIgnoreCase("encoding")) {
            if (vs == null) {
                throw new ParseException("expecting encoding string here: ",
                    + exp.getStartLocation(), exp);
            }
            String encoding = template.getEncoding();
            if (encoding != null && !encoding.equals(vs)) {
                throw new Template.WrongEncodingException(vs);
            }
        } else if (ks.equalsIgnoreCase("STRIP_WHITESPACE")) {
            this.stripWhitespace = getBoolean(exp);
        } else if (ks.equalsIgnoreCase("STRIP_TEXT")) {
            this.stripText = getBoolean(exp);
        } else if (ks.equalsIgnoreCase("STRICT_SYNTAX")) {
this.token_source.strictEscapeSyntax = getBoolean(exp);
}
else if (ks.equalsIgnoreCase("ns_prefixes")) {
    if (!((value instanceof TemplateHashModelEx)) {
        throw new ParseException("Expecting a hash of prefixes to namespace URI's here. " +
        exp.getStartLocation(), exp);
    }
    TemplateHashModelEx prefixMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = prefixMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();)
            String prefix = ((TemplateScalarModel) it.next()).getAsString();
        TemplateModel valueModel = prefixMap.get(prefix);
        if (!((valueModel instanceof TemplateScalarModel)) {
            throw new ParseException("Non-string value in prefix to namespace hash. " +
            exp.getStartLocation(), exp);
        }
    }
    catch (TemplateModelException tme) {
    }
}
else if (ks.equalsIgnoreCase("attributes")) {
    if (!((value instanceof TemplateHashModelEx)) {
        throw new ParseException("Expecting a hash of attribute names to values here. " +
        exp.getStartLocation(), exp);
    }
    TemplateHashModelEx attributeMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = attributeMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();)
            String attName = ((TemplateScalarModel) it.next()).getAsString();
        Object attValue = DeepUnwrap.unwrap(attributeMap.get(attName));
        template.setCustomAttribute(attName, attValue);
    }
    catch (TemplateModelException tme) {
    }
}
else {
    throw new ParseException("Unknown FTL header parameter: " + key.image,
        key.beginLine, key.beginColumn);
}
Map ParamList() :
{
    Identifier id;
    Expression exp;
    Map result = new HashMap();
}
{
    (id=Identifier()
    <EQUALS>
    exp=Expression() {result.put(id.toString(), exp);}
    [<COMMA>]*)+
    {
        return result;
    }
}

/**
 * Root production to be used when parsing
 * an entire file.
 */
TemplateElement Root() :
{
    TemplateElement doc;
}
{
    [LOOKAHEAD([<WHITESPACE>](<TRIVIAL_FTL_HEADER>|<FTL_HEADER>))
    HeaderElement()]
    doc=OptionalBlock()
    <EOF>
    {
        doc.setParentRecursively(null);
        return doc.postParseCleanup(stripWhitespace);
    }
}

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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/log/Logger.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/NodeListModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NumercialBuilits.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/XmlEscape.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/HashLiteral.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/StringUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/AttributeNodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/SoftCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/JaxenXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BlockAssignment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/HtmlEscape.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Environment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/ParseException.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/CollectionAndSequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/Transform.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/AddConcatExpression.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/MruCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/PropertySetting.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/cache/CacheStorage.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/utility/NormalizeNewlines.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/StringArraySequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/library/JythonRuntime.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/NodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/cache/StrongCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/library/SunInternalXalanXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/NodeBuiltins.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/LibraryLoad.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/library/XalanXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/BuiltinVariable.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/StringBuiltins.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/Template.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/library/Utility.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/BuiltIn.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/DocumentTypeModel.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/BuiltinVariable.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/core/SequenceBuiltins.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1.jar/freemarker/template/TemplateModelListSequence.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jdom/NodeListModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/DeepUnwrap.java
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jar/freemarker/ext/jsp/FreemarkerTag.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/URLTemplateLoader.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/ToCanonical.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NoEscapeBlock.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/CompressedBlock.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/SimpleMethodModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/SimpleCollection.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NotExpression.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/DefaultObjectWrapper.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/ClassString.java
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No license file was found, but licenses were detected in source scan.

QUICK START

17 May 93

Copy all the files on all the disks to a folder on your hard disk
(make sure you have at two (4) megabytes of free space on
your hard disk for each disk of Moby product).
Change your current directory (‘CD’) to that folder,
type BUILD and press (enter).
The files that are extracted may be viewed and edited by
any capable text-editor, such as Microsoft Word 5.x.

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Moby (tm) Words II for the MSDOS operating system is compressed and distributed on two 1.4MB double-sided diskettes. After self-extraction, the vocabulary files included with this product are in ordinary ASCII format with CRLF (ASCII 13/10) delimiters.

MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.
256,772 compound words
Over 256,700 hyphenated or other entries containing more
than one word as well as all capitalized words and acronyms.
Phrases were considered 'common' if they or variations of them
occur in standard dictionaries or thesauruses.

113,809 official crosswords
A list of words permitted in crossword games such as Scrabble(tm).
Compatible with the first edition of the Official Scrabble Players
Dictionary(tm). Since this list has all forms: -ing, -ed, -s, and so on
of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the
official crossword list compatible with the second edition of the
Official Scrabble Players Dictionary. (Scrabble is a registered
trademark of Milton-Bradley licensed to Merriam-Webster.)

74,550 common dictionary words
A list of words in common with two or more published dictionaries.
This gives the developer of a custom spelling checker a good beginning
pool of relatively common words.

21,986 names
This database contains the most common names used in the
United States and Great Britain. Spelling checkers may want to
supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used
English words from a wide variety of common texts listed
in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used
English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations

1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James
Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a

USA Constitution
The Constitution of the United States, including the Bill of Rights
and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'etude'
does not mark the accent on the initial 'e'.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810361_1591391354.1/0/words-3.0-28.el8.src.rpm-cosi-expand-archive-
8fdAoiaa/mwords.tar.Z-cosi-expand-archive-uMQXM7Yc/mwords/readme.txt
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A la maryland
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A-B station
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German catchfly
German coach horse
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Hydrocortone
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Hydrodromica
Hydrogenomonas
Hydroidea
Hydroidea
Hydrolea
Hydroleaceae
Hydromatic
Hydromedusae
Hydrometridae
Hydromys
Hymenoptera
Hymera
Hymettian
Hymettic
Hymettius
Hymettus
Hymie
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Hynda
Hyndman
Hynek
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Hyoscyamus
Hyotherium
Hyozo
Hypanis
Hypapante
Hypatia
Hypatie
Hypanantron
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Hyper-calvinist
Hyper-calvinistic
Hyper-dorian
Hyper-ionian
Hyper-jacobean
Hyper-latinistic
Hyper-lydian
Hyper-phrygian
Hyper-romantic
Hyper-uranian
Hyperborean
Hypercheiria
Hyperenor
Hypergon
Hypericaceae
Hypericales
Hypericum
Hyperion
Hyperion to a satyr
Hypermnestra
Hyperoartia
Hyperoodon
Hyperotreta
Hyperotreti
Hyrcan
Hyrcania
Hyrcanian
Hyrie
Hyrmna
Hymetho
Hyrtius
Hyrum
Hyrup
Hysham
Hyssopus
Hysteriales
Hysterocarpus
Hysterophyta
Hystricidae
Hystricinae
Hystricomorpha
Hystrich
Hz
I
I Am
I Ching
I Claudius
I Mech E
I Min E
I am led to believe
I ask you
I beam
I beg you
I beg your pardon
I can't see
I couldn't care less
I daresay
I declare
I don’t care
I don’t have the first idea
I don’t know what
I don’t see how
I don’t see why
I don’t understand
I girder
I give up
I have it
I myself
I never
I pass
I refuse
I should fret
I should worry
I thank you
I thank you very much
I think not
I venture to say
I will no such thing
I will not
I won't
I won't buy it
I''d
I''ll
I''s
I'd
I'll
I'll be
I'll be damned if
I'll be hanged if
I'll be hanged if I will
I'll be jiggered
I'll be seeing you
I'll say
I'll see you in hell first
I'm
I'm not taking any
I's
I've
I-beam
I-bunga
I-go
I-ism
I-ness
I-railed
I-ship
I-spy
I/O
IA
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IADB
IAEA
IAF
IAH
IAM
IANA
IAPPP
IAS
IATA
IDE
IDEA
IDF
IDI
IDL
IDM
IDN
IDP
IDP machine
IDS
IDV
IDVC
IE
IEC
IEE
IEEE
IEN
IESG
IETF
IF
IF amplification
IF amplifier
IF audio signal
IF oscillator
IF pulse
IF signal
IF transformer
IF video signal
IFB
IFC
IFF
IFF radar
IFIP
IFLA
IFLWU
IFO
IFR
IFRPS
IFS
IG
IGES
IGFET
IGM
IGMP
IGP
IGY
IHD
IHP
| IR   | IRA  | IRAF | IRAS | IRBM | IRC  | IRD  | IRDS | IRE  | IRG  | IRL  | IRM  | IRMS | IRN  | IRO  | IROR | IRQ  | IRS  | IRSG | IRTF | IS   | ISA  | ISAM | ISAS | ISBD | ISBN | ISC  | ISCH | ISDN | ISDT | ISEE | ISF  | ISFUG | ISH  | ISI  | ISIS | ISLM | ISLU | ISM  | ISN  | ISO  | ISODE | ISOO | ISOP | ISPM | ISR  | ISRG | ISS  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
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Iapyx
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Iardanus
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Ibanez Del Campo
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Ibaraki
Ibarguen Herrara
Ibarruri
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Ibero-insular
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Ibidinae
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Ibilao
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Ibn Hussein
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Ibrahim
Ibrahim Abdel Hadi
Ibrahim Al Soleiman
Ibrahim Hakimi
Ibrahim Hashim
Ibrahim Hussein
Ibrahim Pasha
Ibrahim el Kassem
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Iceland
Iceland crystal
Iceland dog
Iceland falcon
Iceland gull
Iceland lichen
Iceland moss
Iceland pony
Iceland poppy
Iceland sea grass
Iceland spar
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Icelandian
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Iceman Cometh, The
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Ichthyoidea
Ichthyol
Ichthyomorpha
Ichthyopsida
Ichthyopterygia
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Idelia
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Idomeneo
Idomeneus
Idona
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Ihei Aoki
Ihlat
Ihlen
Ihsan Caglayangil
Iiette
Iila
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Iives
Ij
Ijamsville
Ijo
Ijore
Ikara
Ikaria
Ike
Ikeda
Ikeja
Ikey
Ikeya-Seki
Ikhnaton
Ikhwan
Ilka
Il
Il Barbiere di Siviglia
Il Cortegiano
Il Messaggero
Il Penseroso
Il Trovatore
Il
Ila
Il aire
Ilam
Ilan
Ilana
Ilario
Ilarold
Ilbert
Ile Bizard
Ile du Diable
Ile-de-France
Illeana
Illeana Ros-Lehtinen
Illeana
Illeitis
Ilene
Illes Comores
Iles du Salut
Iles sous le Vent
Ilesha
Iletin
Ilford
Ilha
Ilheus
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Ilío Bosí
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Ilioneus
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Ilise
Ilissus
Ilithyia
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Ilkeston
Ilkke Sinisalo
Ilkley
Ill
Illa
Illaenus
Illampu
Ilano
Ilhanun
Ilwarra
Ilwarra ash
Ilwarra pine
Ille-et-Vilaine
Illecebraceae
Illene
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Illich
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Illimani
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Illinois
Illinois gooseberry
Illinois nut
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Illinoisian
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Ilpirra
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Ilseidore
Ilwaco
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Ilya
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Ilysa
Ilysanthes
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Imamite
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Iman Al Badr
Imantophyllum
Imari ware
Imbert Barrera
Imbler
Imboden
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Imbrius
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Indian Runner
Indian States and Agencies
Indian Summer of a Forsyte
Indian Territory
Indian Wars
Indian agency
Indian agent
Indian apple
Indian balsam
Indian bison
Indian blanket
Indian bread
Indian breadroot
Indian bridle
Indian buffalo
Indian cherry
Indian cholera
Indian club
Indian cobra
Indian corn
Indian cress
Indian cup
Indian currant
Indian drug
Indian elephant
Indian fig
Indian file
Indian gift
Indian giver
Indian giving
Indian grackle
Indian hawthorn
Indian header
Indian heat
Indian hemp
Indian hippo
Indian house
Indian ink
Indian jujube
Indian lettuce
Indian licorice
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Indian lotus
Indian madder
Indian mallow
Indian meal
Indian millet
Indian mode
Indian mulberry
Indian paintbrush
Indian pink
Indian pinkroot
Indian pipe
Indian pitcher
Indian pony
Indian potato
Indian pudding
Indian red
Indian reservation
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Indian rice
Indian rope-trick
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Indian tea
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Indian weed
Indian wolf
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Indo-african
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Indo-australian
Indo-british
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Indo-burmese
Indo-celtic
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Indo-egyptian
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Indo-french
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Ireland
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Jack Ketch
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Jack Schalow
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Jack Tar
Jack mormon
Jack nasty
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Jack-fool
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Jacques Cloutier
Jacques Delors
Jacques Martin
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Jaime Fillol
Jaime Torres Bodet
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Jakoba
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Jamaal
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Jamaica ginger
Jamaica gold fern
Jamaica honeysuckle
Jamaica rum
Jamaica shorts
Jamaican
Jamal
Jamal ud-Din
Jamalpur
Jambi
Jambos
Jamel
James
James Bay
James Bere
James Buchli
James Callaghan
James Cicconi
James Denike
James Gilkes
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National
National Academy of Engineering
National Academy of Sciences
National Assembly
National Aviation Day
National Bureau of Standards
National Charter
National Congress
National Convention
National Council
National Country Party
National Covenant
National Enterprise Board
National Front
National Gallery
National Guard
National Health Service
National Industrial Recovery Act
National Labor Relations Act
National Labor Relations Board
National Liberation Front
National Mediation Board
National People's Congress
National Republican Party
National Science Foundation
National Security Council
National Socialism
National Socialist
National Trust
National Union Catalog
National War Labor Board
National Wildlife Service
Nationalist China
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Native American
Native Dancer
Native Son
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Nguyen Lyong Bang
Nguyen Thi Binh
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Nikaria
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Nike Ajax
Nike Hercules
Nike Zeus
Nike of Samothrace
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Nikiski
Nikita
Nikita Khrushchev
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Nikkie
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Nikola Ignatov
Nikola Kavaja
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Nikolai Bulganin
Nikolai Ryzhkov
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North Brookfield
North Cape
North Carolina
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North Catasauqua
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North Channel
North Chicago
North Country
North Dakota
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North Germanic
North Haledon
North Highlander
North Highlands
North Holland
North Island
North Korea
North Little Rock
North Manchester
North Mankato
North Miami
North Miami Beach
North Muskegon
North New Hyde Park
North Ogden
North Olmsted
North Pacific current
North Palm Beach
North Pelham
North Pole
North Rhine-Westphalia
North Richland Hills
North Riding
North River
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North Saskatchewan
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North Syracuse
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O Henry
O Lord
O gauge
O level
O my soul
O star
O station
O wild West Wind
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Odacidae
Odanah
Odawa
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Odd fellow
Odd fellowship
Oddfellow
Oddibe Mcdowell
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Oddsbud
Ode
Ode on Indolence
Ode on Melancholy
Ode on a Grecian Urn
Ode to Autumn
Ode to Duty
Ode to Psyche
Ode to a Nightingale
Ode to the West Wind
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Saint John's wort
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Tuxedo coat
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U bolt
U magnet
U pin
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U rail
U section
U trap
U tube
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UAE
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US Naval Academy
US Naval Reserve
US agency
US attorney
US cavalry saddle
US dry measure
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USC&GS
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United Brethren
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United Nations Children's Fund
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Unknown American
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Zorine
Zorn
Zorn's lemma
Zoroaster
Zoroastrian
Zoroastrianism
Zoroastrism
Zorobabel
Zorotypus
Zortman
Zosema
Zoser
Zosi
Zosima
Zosimus
Zosma
Zostera
Zosteraceae
Zosteria
Zosteropinae
Zosterops
Zouave
Zouave jacket
Zoubek
Zoug
Zoysia
Zr
Zrich
Zrike
Zsa
Zsa Zsa
Zsa Zsa Gabor
Zsazsa
Zsigmondy
Zsolway
Ztopek
Zu’lkadah
Zu-zu
Zuben el genubi
Zubeneschamali
Zubird
Zubkoff
Zuccari
Zuccaro
Zucchero
Zucker
Zuckerman
Zug
Zui
Zuiian
Zuider Zee
Zuidholland
Zulch
Zuleika
Zulema
Zulfiqar Ali Bhutto
Zulhijjah
Zulinde
Zulkadah
Zullinger
Zullo
Zuloaga
Zulu
Zulu-kaffir
Zuludom
Zuluize
Zululand
Zulus
Zumbrota
Zumstein
Zumwalt
Zungaria
Zuni
Zunian
Zupus
Zurbar
Zurbaran
Zurek
Zurheide
Zurich
Zythia
Zyzomys
Zyzzogeton
Zz
a Chinaman's chance
a Roland for an Oliver
a bad penny
a barren waste
a bas
a base
a battery
a being
a belief
a beneplacito
a better place
a bill of goods
a billion
a bit
a bit different
a bit much
a bit previous
a bit thick
a bit thin
a blanc
a bon marche
a brain-spattering
a breath
a broken reed
a bum rap
a bundle of nerves
a capite ad calcem
a cappella
a capriccio
a car in every garage
a card up your sleeve
a certain
a certain number
a cheval
a chicken in every pot
a comedy to those who think
a continental
a contre cour
a corner on
a corps perdu
a corpse upon the road of night
a couple of
a couvert
a crore
a crown of glory
a curse
a cut above
a damn
a dark illimitable ocean
a darn
a datu
a deal
a debt we all must pay
a decent sort of fellow
a demain
a deux
a diet of cake
a dime a dozen
a discretion
a disgrace to your name
a divinity that shapes our ends
a dog's life
a dome of many-colored glass
a drawing toward
a drop in the bucket
a drop in the ocean
a due
a fabulous
a fair field and no favor
a far cry
a far cry from
a fat chance
a fat lot
a fatal complaint
a feather in your cap
a few
a few words of wisdom
a finder of occasions
a fire-red cherubim's face
a fond
a fool
a form of catharsis
a form of genius
a fortiori
a fortiori reasoning
a game of circles
a game two can play
a gentleman and a scholar
a ghost of a chance
a globe burnt out
a god in ruins
a gogo
a good hand at
a good ways off
a great deal
a greater number
a habit
a hall
a hand at
a hand for
a handicraft in flower
a handmaid to religion
a hard
a hieroglyphic
a high
a hit below the belt
a hive of glass
a hog for
a hoot
a huis clos
a hundred to one
a jillion
a kind of praise
a knave
a l'allemande
a l'americaine
a l'anglaise
a l'aurore
a l'espagnole
a l'estragon
a l'etouffee
a l'improviste
a l'italienne
a la
a la Chateaubriand
a la Crecy
a la Croissy
a la Maintenon
a la Marengo
a la Maryland
a la Newburg
a la Perigord
a la Soubise
a la bearnaise
a la bonne femme
a la bordelaise
a la bourgeoise
a la carte
a la casserole
a la cocotte
a la coque
a la creole
a la dauphine
a la dauphinoise
a la derobee
a la diable
a la francaise
a la godiveau
a la grecque
a la jardiniere
a la julienne
a la king
a la lyonnaise
a la macedoine
a la maitre d'hôtel
a la matelote
a la mire
a la mode
a la mode de Caen
a la mort
a la napolitaine
a la normande
a la parisienne
a la polonaise
a la printaniere
a la ravigote
a la reine
a la russe
a la serviette
a la sourdine
a la suisse
a la tartare
a la vinaigrette
a lac
a lakh
a lamp unto my feet
a leg up
a lick and a promise
a life of dignified otiosity
a lily-livered
a little
a little at a time
a little learning
a little one-eyed
a little sleep
a little slumber
a little thing
a little too thick
a load off your mind
a long cry to
a long lesson in humility
a long pull
a long time ago
a long way off
a long while ago
a lot
a lot alike
a lot going for one
a lot on the ball
a lot to do with
a lot to say about
a man
a man among men
a mass of
a mensa et thoro
a mile long
a mile off
a million
a mind of your own
a minor form of despair
a mite different
a moment standing still for ever
a monster begot upon itself
a month of Sundays
a myriad
a necessary evil
a new lease on life
a nickname of Providence
a nipping and an eager air
a noble and expressive language
a nobody
a nonillion
a nose for news
a nothing
a novice at
a number
a number of times
a outrance
a pack of lies
a paltry thing
a party to
a pas de geant
a pat on the back
a per se
a person of low taste
a perte de vue
a piacere
a pick a back
a piece of cake
a piece of the action
a place in the sun
a placing over against
a plague upon
a play for time
a play of passion
a plomb
a poco
a poem without words
a poor
a posteriori
a posteriori reasoning
a pox upon
a prendre
a preparation
a pretty mocking of the life
a pretty penny
a priori
a priori knowledge
a priori principle
a priori reasoning
a priori truth
a propos
a punta d'arco
a pure and grandfather moss
a putting or inflicting upon
a putting or lying between
a quadrillion
a quarter after
a quarter of
a quarter past
a quarter to
a quo
a radical change
a rascal
a rascally yeaforsooth knave
a reasoning animal
a reboors
a reckoning of
a reculons
a rivederci
a robbery
a ruined world
a runout powder
a sadder and a wiser man
a sandpile we run our fingers in
a screw loose
a seat where gods might dwell
a set of lies agreed upon
a short life and a merry one
a short time ago
a single separate person
a slipper and subtle knave
a sort of second nature
a sound mind in a sound body
a stitch in time
a stranger to
a stroke above
a strong brown god
a strong pull
a sucker
a tale told by an idiot
a tale-bearing animal
a tall order
a tattered coat upon a stick
a temple sacred by birth
a tempo
a tergo
a theft
a thing for
a thing that shades
a thing to be desired
a thinking reed
a third something
a thousand
a thousand and one
a thousandfold
a thrusting away
a tinker's damn
a tool-making animal
a tool-using animal
a tooth for a tooth
a toute a l'heure
a toute outrance
a tragedy to those who feel
a transient madness
a turn to the right-about
a tyrant
a tyro at
a vast
a verray parfit gentil knight
a vinculo matrimonii
a vol
a votre sante
a way back
a whoreson
a wild of sand
a will of your own
a wise passiveness
a world of
a world-without-end bargain
a year and a day
a young person
a zillion
a-
a-be
a-bomb
a-borning
a-c
a-clock
a-coast
a-cock-bill
a-cock-horse
a-compass
a-cry
a-dance
a-dangle
a-dead
a-deep
a-doors
a-flicker
a-game
a-glimmer
a-glucosidase
a-good
a-gore-blood
a-height
a-hay
a-high
a-high-lone
a-hold
a-horizon
a-horseback
a-hunt
a-morrow
a-pieces
a pinch
a-plenty
a-poop
a-quarter
abase bemean
abase yourself
abatement of differences
abb wool
abbey counter
abbey laird
abbey lands
abbey lubber
abbot cloth
abbreviated number
abc soil
abdominal epilepsy
abdominal hernia
abdomino-uterotomy
abducces nerve
abducent nerve
abelian group
aberdeen angus
aberrant duct
aberration constant
abide by
abide in
abide with
abide your time
abiding place
abietic acid
abject apology
abject defeat
abject fear
ablative absolute
ablative operation
able rating
able seaman
able to adapt
able to bend without breaking
able to pay
able to roll with the punches
able to walk the chalk
able to walk the chalk line
able to walk the chalk mark
able-bodied
able-bodied seaman
able-bodiedness
able-minded
able-mindedness
ablution room
abnormal psychology
abo group
abo system
aboard the bandwagon
abode of the blessed
abode of the damned
abode of the dead
aboli fruit
abominable snowman
abortive attempt
abound with
abounding in riches
about face
about it and about
about ship
about the bush
about this size
about to
about to be
about to happen
about to piss your pants
about turn
about-face
about-faced
about-facing
about-ship
about-shipped
about-shipping
about-sledge
about-turn
above all
above all that
above and beyond
above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
above-cited
above-found
above-given
above-mentioned
above-named
above-quoted
above-reported
above-said
above-water
above-written
abraham-man
abraum salts
abraxas stone
 abreast of
 abreast of the times
 abruptly acuminate
 abruptly pinnate
 abs-
 abscisic acid
 absciss layer
 abscision layer
 abscession layer
 abscession zone
 absence flag
 absence of assignable cause
 absence of authority
 absence of charge
 absence of color
 absence of mind
 absence of motion
 absence state
 absence without leave
 absent flag
 absent treatment
 absent voter
 absent without leave
 absent yourself
 absent yourself from
 absent-minded
 absent-mindedly
 absent-mindedness
 absente reo
 absentee ballot
 absentee landlord
 absentee vote
 absentee voter
 absentee voting
 absinthe green
 absinthe oil
 absit omen
 absolute alcohol
 absolute altimeter
 absolute altitude
 absolute angstrom
 absolute ceiling
 absolute certainty
 absolute complement
absolute contradiction
absolute convergence
absolute credibility
absolute ego
absolute fact
absolute free will
absolute humidity
absolute idea
absolute idealism
absolute idealist
absolute impediment
absolute index of refraction
absolute indication
absolute interest
absolute likeness
absolute magnitude
absolute majority
absolute master
absolute maximum
absolute minimum
absolute monarch
absolute monarchy
absolute music
absolute permeability
absolute permittivity
absolute pitch
absolute power
absolute realism
absolute ruler
absolute scale
absolute space
absolute spirit
absolute temperature
absolute unit
absolute value
absolute veto
absolute viscosity
absolute zero
absolutely no
absolutely right
absorb the attention
absorb the shock
absorb the thought
absorb the thoughts
absorbed attention
absorbed by
absorbed in
absorbed in thought
abuse yourself
abut on
abut upon
abutment arch
abutment pier
abutting joint
abyssal rock
abyssal zone
abyssinian cat
ac-
ac-globulin
acacia veld
academic choctaw
academic costume
academic dean
academic degree
academic degrees
academic discipline
academic disputation
academic dress
academic freedom
academic gown
academic hood
academic institution
academic psychology
academic rank
academic robe
academic specialty
academic year
academy blue
academy board
academy figure
academy of music
acajou balsam
acanth-
acantho-
acanthosis nigricans
acanthus family
acanthus leaf
acaroid gum
acaroid resin
acaroid resins
accede to
accede to prejudice
accede to the throne
acceleration coefficient
acceleration due to gravity
acceleration note
acceleration of free fall
acceleration of gravity
acceleration principle
accelerator globulin
accelerator nerve
accent mark
accentual meter
accept Christ
accept a challenge
accept advice
accept for gospel
accept implicitly
accept obligation
accept responsibility
accept the responsibility
accept unquestioningly
accept your fate
accept your lot
acceptable person
acceptance bill
acceptance house
acceptance race
acceptance sampling
acceptance speech
acceptance supra protest
accepted conduct
accepted fact
accepted masons
accepted meaning
acceptor atom
acceptor impurity
acceptor supra protest
access road
access time
acession book
acession number
acession service
acession to power
accessory adjunct
accessory after the fact
accessory before the fact
accessory chromosome
accessory fruit
accessory nerve
accident boat
accident insurance
accident neurosis
accident prone
accident tout
accident-prone
accidental discovery
acclamation medal
acclimation fever
accommodate distribution
accommodate to
accommodate with
accommodate yourself to
accommodated to
accommodation acceptance
accommodation address
accommodation bill
accommodation draft
accommodation group
accommodation ladder
accommodation line
accommodation paper
accommodation train
accommodation works
accompaniment figure
accompanying fire
accomplice in crime
accomplished fact
accord a blank check
accord respect to
accord to
according as
according to
according to Hoyle
according to circumstances
according to custom
according to expectation
according to law
according to regulations
according to reports
according to rule
according to rumor
according to the agreement
according to the bargain
according to the contract
according to the dictates of Mrs
according to the evidence
according to the letter
according to this reading
according to use
according to your lights
accordion pleat
ace point
ace-high
acet-
acetal phosphatide
acetate green
acetate nitrate
acetate rayon
acetic acid
acetic acid amide
acetic anhydride
aceto-
acetoacetic acid
acetone alcohol
acetone body
acetone chloroform
acetone oil
acetous fermentation
acetyl benzoyl peroxide
acetyl bromide
acetyl carbinol
acetyl chloride
acetyl group
acetyl index
acetyl number
acetyl oxide
acetyl radical
acetyl value
acetylene acid
acetylene alcohol
acetylene black
acetylene burner
acetylene dichloride
acetylene dinitrile
acetylene gas
acetylene generator
acetylene linkage
acetylene series
acetylene tetrabromide
acetylene tetrachloride
acetylene torch
acetylene urea
acetylene welder
acetylene welding
acetylformic acid
acetylsalicylic acid
acye-deucy
ache for
ache to
achemom sphinx
aches and pains
achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
achieve your purpose
achievement age
achievement quotient
achievement test
achilles tendon
achilles' heel
aching for
aching heart
aching to
aching void
achingly sweet
achromat-
achromatic color
achromatic colour
achromatic lens
achromatic prism
achromatic vision
achroo-
achylia gastrica
acid albumin
acid albuminate
acid alizarin black
acid alizarin red
acid amide
acid anhydride
acid anthracene brown
acid azide
acid bath
acid bessemer process
acid black
acid blast
acid blower
acid boiler
acid bronze
acid brown
acid burner
acid casein
acid cell
acid color
acid concentrator
acid dipper
acid drop
acid dye
acid dyspepsia
acid egg
acid ester
acid freak
acid fuchsin
acid gloss
acid green
acid halide
acid honey
acid hydrolysis
acid kiln
acid metaprotein
acid nitrile
acid number
acid oil
acid phosphate
acid ponceau
acid precipitation
acid process
acid purifier
acid radical
acid reaction
acid reserve
acid resist
acid rock
acid salt
acid sludge
acid sodium carbonate
acid soil
acid steel
acid test
acid test ratio
acid tide
acid value
acid violet
acid wood
acid worker
acid works
acid yellow
acid-ash diet
acid-base metabolism
acid-binding
acid-fast
acid-fastness
acid-forming
acid-head
acid-mordant dye
acid-treat
acidity coefficient
acidophilus milk
ack emma
ack-ack
ack-pirate
acknowledge defeat
acknowledge receipt of
ac clinic line
acme harrow
acme of perfection
acme screw thread
acme thread
acne vulgaris
aconite violet
acorn barnacle
acorn chair
acorn clock
acorn cup
acorn duck
acorn moth
acorn shell
acorn spoon
acorn squash
acorn sugar
acorn tube
acorn valve
acorn weevil
acorn worm
acorn-shell
acouchi resin
acoustic feature
acoustic gramophone
acoustic impedance
acoustic inertance
acoustic mass
acoustic meatus
acoustic mine
acoustic nerve
acoustic ohm
acoustic phonetics
acoustic reactance
acoustic resistance
acoustic tile
acoustic wave
acoustical cloud
acoustical engineer
acoustical network
acoustical phenomenon
acoustico-
acquaint yourself with
acquainted with
acquiesce in
acquire information about
acquire intelligence about
acquired character
acquired characteristic
acquired epilepsy
acquired immunity
acquired syphilis
acquired taste
acquired tolerance
acquisition of knowledge
acquit yourself
acquit yourself of
acquittance roll
acr-
acre-dale
acre-foot
acre-inch
acridine dye
acridine dyes
acridine yellow
acriflavine hydrochloride
acro-
acrobatic evolutions
acrobatic maneuvers
across the board
across the grain
across the sea
across-the-board
acrylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acryl group
acryl radical
act a part
act a role
act all over the stage
act as
act as a cathartic
act as feeder
act as foil
act beneath yourself
act between
act call
act curtain
act drop
act for
act holier than thou
act in concert
act in opposition to
act in the interests of
act in the place of
act like
act like a tonic
act like a trouper
act of God
act of accomplishing
act of contrition
act of courtesy
act of faith
act of folly
act of god
act of grace
act of kindness
act of love
act of lowering
act of politeness
act of rising
act of thought
act of war
act on
act on behalf of
act on the spur of the moment
act on your own responsibility
act opposite
act out
act psychology
act the fool
act the grand seigneur
act the hypocrite
act the part of
act the traitor
act together
act toward
act tune
act up
act up to
act upon
act warning
act well
act with
act with regard to
act your age
act your part
act-wait
actin-
acting area
acting company
acting corporal
acting device
acting school
acting sergeant
acting-out
actinic light
actinic radiation
actinic ray
actinide series
actinium emanation
actinium series
actino-
actinouranium series
action and reaction
action busher
action consciousness
action current
action extension
action filer
action finisher
action forger
action freer
action jointer
action machiner
action noun
action painter
action painting
action potential
action rail
action regulator
action replay
action sermon
action stations
action theory
actual sin
actual thing
actuality theory
actuarial calculation
actuarial prediction
actuarial table
acute accent
acute alcoholism
acute angle
acute anterior poliomyelitis
acute arch
acute arthritis
acute articular rheumatism
acute bisectrix
acute bronchitis
acute condition
acute conjunctivitis
acute disease
acute inflammation
acute leukemia
acute pain
acute sense of hearing
acute sight
acute-angled
acute-angled triangle
acuti-
acuto-
acuyari palm
acuyari wood
acyclic co-ordinates
acyclic terpene
acyl group
acyl radical
ad Kalendas Graecas
ad arbitrium
ad astra per aspera
ad captandum vulgus
ad esse
ad eundem
ad extremum
ad fin
ad gloriam
ad hoc
ad hoc committee
ad hoc measure
ad hominem
ad hominem attack
ad in
ad inf
ad infinitum
ad init
ad initium
ad int
ad interim
ad lib
ad libitum
ad limina
ad litem
ad litteram
ad loc
ad majorem Dei gloriam
ad nauseam
ad out
ad patres
ad quem
ad rem
ad utrumque paratus
ad val
ad valorem
ad valorem duty
ad valorem tax
ad verbum
ad vitam
ad vivum
ad-
ad-lib
ad-libbed
ad-libber
ad-libbing
adam's apple
adam's needle
adam-and-eve
adapt to
adapted to
adaptive radiation
adar sheni
add a codicil
add fuel to the fire
add fuel to the flame
add gas
add insult to injury
add to
add up
add up to
add-add
added sixth
added sixth chord
added to
addendum circle
adder bead
adder fly
adder gem
adder pike
adder stone
adder's fern
adder's violet
adder's-grass
adder's-meat
adder's-mouth
adder's-mouths
adder's-tongue
adders-tongue
addict yourself to
addicted to
addicted to drink
addictive drug
adding machine
addison's disease
addition algebra
addition axiom
addition compound
addition logarithm
addition polymer
addition polymerization
addition product
addition table
addition theorem
additive color
additive group
additive inverse
additive primary
additive process
addle egg
addle the wits
address a warning to
address book
address the four walls
address to
address yourself to
addressing machine
adduce evidence
adductor canal
adductor impressions
aden-
adeno-
adenohypophyseal luteotropin
adenosine diphosphate
adenosine phosphate
adenosine triphosphatase
adenosine triphosphate
adenosinediphosphoric acid
adenosinetriphosphoric acid
adenylic acid
adenylpyrophosphoric acid
adept in
adequate supply
ader wax
adhere to
adhere to your principles
adherence to the old and tried
adherent noun
adhesive cell
adhesive compress
adhesive factor
adhesive inflammation
adhesive plaster
adhesive tape
adiabatic absorption
adiabatic chart
adiabatic demagnetization
adiabatic diagram
adiabatic expansion
adipic acid
adipose fin
adipose tissue
adjacent angles
adjectival phrase
adjective equivalent
adjective pronoun
adjoint curve
adjoint differential equation
adjunct Logic
adjust to
adjust yourself to
adjustable propeller
adjustable spanner
adjustable wrench
adjustable-pitch
adjusted to
adjustive reaction
adjustment bond
adjustment mortgage
advancing color
advantage ground
advantageous purchase
advection fog
advent sunday
adventure playground
adventure story
adverb equivalent
adverbal noun
adverbial phrase
adversative asyndeton
adversative conjunction
adverse circumstances
adverse criticism
adverse party
adverse possession
adverse to
advert to
advertise of
advertise yourself
advertisement canvasser
advertisement contractor
advertising account
advertising agency
advertising man
advertising matter
advertising writer
advice boat
advise colleague
advise with
advise with your pillow
advisory body
advisory council
advisory opinion
advocacy journalism
advocatus diaboli
advocatus ecclesiae
adz block
adz eye
adzuki bean
ae-
aeolian harp
aeolian lyre
aeolo-
aeons ago
aequo animo
aer-
aerating root
aere perennis
aer-
aerial bomb
aerial combat
aerial heights
aerial infection
aerial ladder
aerial mine
aerial mosaic
aerial navigation
aerial perspective
aerial photograph
aerial photographer
aerial photography
aerial pingpong
aerial railway
aerial reconnaissance camera
aerial survey
aerial tactics
aerial torpedo
aerial tramway
aerial warfare
aero arrow
aero engine
aero-
aero-otitis
aero-otitis media
aerobic bacteria
aerobic organism
aerodynamic center
aerodynamic pitch
aerodynamic trajectory
aerodynamic volume
aerodynamic wave drag
aerogenic tuberculosis
aerological instrument
aeronautical chart
aeronautical engineer
aeronautical engineering
aeronautical meteorology
aeronautical relay
aero-otitis media
aeroplane cloth
aeroplane spin
aerosol bomb
aerosol therapy
aerospace engineer
aerospace engineering
aerospace medicine
aerospace research
aerospace science
aerospace technology
aerostatic lift
aerothermodynamic duct
aerotitis media
aesthesio-
aesthetic distance
aesthetic form
aesthetic judgment
aesthetic proportions
aesthetic taste
aesthetically appealing
aestho-physiology
aetatis suae
aethiops mineral
af-
afar off
afebrile delirium
aff loof
affair of honor
affair of the heart
affaire d'amour
affaire d'honneur
affaire de coeur
affaires d'amour
affaires d'honneur
affaires de coeur
affect emotionally
affect epilepsy
affect memory
affect the guise of
affect the interest
affect the manner of
affect your mind
affectedly nice
affectionate name
affective faculty
affective meaning
afferent neuron
affiliate to
affiliate with
affiliated stations
affiliation order
affiliation proceedings
affine connection
affine geometry
affine group
affine transformation
affinity constant
affirmative action
affirmative attitude
affirmative expression
affirmative flag
affirmative voice
affirmative vote
affirmative-action
affirming gun
afford hope
afford proof of
afford support
afford to pay
afford you pleasure
affording no hope
afghan hound
afghan stitch
afghani rupee
afoot and lighthearted
afore-acted
afore-cited
afore-coming
afore-decried
afore-given
afore-going
afore-granted
afore-heard
afore-known
afore-mentioned
afore-planned
afore-quoted
afore-running
afore-seeing
afore-seen
afore-spoken
afore-stated
afore-told
afoul of
afr-
afraid of your shadow
african violet
afro-american
afro-asiatic languages
aft the fantail
after a fashion
after a time
after a while
after all
after all is said and done
after bridge
after death
after deck
after mast
after shroud
after that
after the Fall
after the fact
after the flood
after the manner of men
after the war
after this
after this fashion
after time
after which
after your fancy
after your heart
after your own heart
after-
after-acquired
after-born
after-course
after-described
after-designed
after-dinner
after-dinner speaker
after-dinner speech
after-game
after-grass
after-guard
after-hours joint
after-image
after-life
after-mentioned
after-named
after-pain
after-shave lotion
after-specified
after-stampable
after-supper
after-theater
after-theatre
after-wit
after-written
afterbirth weed
age of growing pains
age of ignorance
age of matured powers
age of responsibility
age of retirement
age score
age society
age-adorning
age-bent
age-coeval
age-cracked
age-despoiled
age-dispelling
age-encrusted
age-enfeebled
age-group
age-harden
age-honored
age-lasting
age-long
age-old
age-peeled
age-struck
age-weary
age-weathered
age-worn
agee-jawed
agency shop
agent de bourse
agent intellect
agent noun
agent of production
agent officer
agent provocateur
agent-general
agents provocateurs
ageratum blue
ages ago
agger nasi
aggravated assault
aggravated larceny
aggregate fruit
aggregate polarization
aggregate to
aggregato
aggressive mimicry
aggressive self-confidence
aggressively self-confident
agro-
ague bark
ague cake
ague drop
ague grass
ague tree
ague-faced
ague-plagued
ague-rid
ague-sore
ague-struck
aguja volador
ahead both motors
ahead full
ahead of
ahead of its time
ahead of the game
ahead of time
ahead one-third
ahead standard
ahead two-thirds
ahoy there
aid and abet
aid and comfort
aid for the blind
aid grant
aid prayer
aid station
aid to dependent children
aid to navigation
aid to the blind
aid-de-camp
aide-de-camp
aide-de-campship
aide-memoire
aide-mmoire
aides-de-camp
aids-de-camp
aigre-doux
aigue-marine
ailanthus family
ailanthus moth
ailanthus silkworm
aileron angle
aileron roll
aim a blow at
aim at
aim at a pigeon and kill a crow
aim high
aim to
aimed at
aiming point
ain't it the truth
air a grievance
air age
air alert
air ambulance
air arm
air armada
air attack
air bag
air base
air bath
air bed
air bell
air belt
air bends
air billow
air bladder
air blast
air blow
air blue
air box
air brake
air breather
air brick
air bridge
air brush
air bubble
air bump
air bus
air cadet
air car
air cargo
air carrier
air casing
air castle
air cataract
air cavalry
air cell
air chamber
air chest
air chief marshal
air chuck
air circuit breaker
air cleaner
air gauge
air glow
air gun
air hammer
air harbor
air hoist
air hole
air horn
air hostess
air hunger
air injection
air injector
air intake
air jack
air jacket
air lance
air lane
air law
air layering
air leak
air legs
air letter
air level
air lift
air line
air liner
air lock
air log
air machine
air mail
air maneuver
air map
air marshal
air mass
air mattress
air medal
air medicine
air meter
air mile
air motor
air navigation
air observer
air out
air oven
air passage
air philately
air photograph
air photography
air pillow
air pilot
air piracy
air pirate
air pistol
air plant
air plot
air plug
air pocket
air police
air pollution
air pore
air post
air potato
air power
air pressure
air propeller
air pump
air race
air raid
air raid warden
air raider
air ram
air remover
air rifle
air right
air route
air sac
air scoop
air scout
air scuttle
air separation
air service
air serviceman
air shaft
air shovel
air show
air shuttle
air sleeve
air sock
air space
air spade
air speed
air spray
air sprayer
air spring
air stack
air station
air stone
air stove
air strainer
air stream
air strike
air support
air survey
air switch
air system
air taxi
air tee
air terminal
air thermometer
air thread
air traffic
air train
air transport
air trap
air travel
air trumpet
air trunk
air tube
air turbine
air twist
air umbrella
air university
air valve
air varie
air vent
air vesicle
air vice-marshal
air volcano
air volume
air war
air warden
air warfare
air washer
air waybill
air well
air wood
air zone
air-balloon
air-bind
air-blasted
air-blown
air-born
air-borne
air-bound
air-braked
air-braving
air-break switch
air-breathe
air-breathed
air-breather
air-breathing
air-bred
air-built
air-chambered
air-cheeked
air-clear
air-clutch reverse
air-condition
air-conditioned
air-conditioning
air-conscious
air-conveying
air-cool
air-cooled
air-core
air-core coil
air-cure
air-cured
air-cushion vehicle
air-defiling
air-drawn
air-dried
air-driven
air-dry
air-drying
air-earth current
air-embraced
air-express
air-faring
air-filled
air-floated
air-formed
air-hardened steel
air-hardening
air-hardening steel
air-heating
air-insulated
air-intake
air-lance
air-lanced
air-lancing
air-line
air-logged
air-mail
air-mass shower
air-minded
air-mindedness
air-pervious
air-raid
air-raid alarm
air-raid shelter
air-raid warden
air-sea rescue
air-sea rescue amphibian
air-sea rescue plane
air-season
air-seasoned
air-shy
air-slake
air-slaked
air-slaking
air-speed head
air-speed indicator
air-spray
air-sprayed
air-spun
air-stirring
air-swallowing
air-threatening
air-to-air
air-to-ground
air-to-surface
air-traffic control
air-traffic controller
air-trampling
air-twisted
air-vessel
air-wall ionization chamber
air-wise
air-wisened
airborne controls
airborne infection
airborne intercept radar
airborne operations
airborne particles
airborne radar
airborne radioactivity
airborne rocket
airborne tactics
aircraft carrier
aircraft cloth
aircraft division
aircraft engine
aircraft engines
aircraft fabric
aircraft hydraulics
aircraft mechanic
aircraft observer
aircraft section
aircraft station
aircraft tender
airle-penny
airline hostess
airline stewardess
airline travel
airman basic
airman third class
airplane carrier
airplane cloth
airplane flare
airplane heading
airplane hijacker
airplane hijacking
airplane parts
airplane spin
airplane spotter
airport beacon
airport surveillance radar
airs and graces
airs of
airship parts
airship shed
airship station
airspeed indicator
airtight secrecy
airway beacon
airy hope
airy nothing
airy sign
airy texture
airy-fairy
aisle seat
ainty-bone
ajax the less
ajowan oil
akamushi mite
akinetic epilepsy
al Marsala
al burro
al dente
al fine
al fresco
al limone
al piacere
al segno
al-
al-Fustat
al-Lat
al-Mamoun
al-Sahih
al-Uzza
alamo vine
alang grass
alang-alang
alant camphor
alant starch
alar cartilages
alar ligaments
alar septum
alar thoracic artery
alarm bell
alarm bird
alarm clock
alarm fire
alarm gauge
alarm post
alarm reaction
alarm signal
alarm valve
alarm watch
alarums and excursions
alaska time
alaskan malamute
albatross around your neck
albatross cloth
albedo unguis
albert-type
albite law
album board
album paper
albumen plate
albumin color
albumin tannate
albumino-
albuminoid ammonia
alchim-
alchym-
alco-ometer
alco-ometric
alco-ometrical
alco-ometry
alcohol acid
alcohol engine
alcohol stove
alcohol tax
alcohol torch
alcoholic addict
alcoholic addiction
alcoholic beverage
alcoholic drink
alcoholic meningitis
alcoholic psychosis
alcool blanc
alcresta ipecac
aldehyde ammonia
aldehyde collidine
aldehyde group
aldehyde resin
alder blight
alder buckthorn
alder dogwood
alder fly
alder flycatcher
alder-
alder-leaved
alderman lizard
aldol condensation
ale brewer
ale brewing
ale drinker
ale drinking
ale feast
ale gallon
ale garland
ale glass
ale pitcher
ale seller
ale selling
ale stain
ale tun
ale vinegar
ale-blown
ale-born
ale-fed
alien enemy
alien priory
alien property custodian
alien water
alienable right
alienate yourself
alienation of affections
alienation office
alieni generis
alieni juris
alight on
alight upon
alighting gear
align with
align your march
align yourself
align yourself with
aligning punch
alignment chart
alike as two peas in a pod
alimentary canal
aliquot part
aliquot tone
alis volat propriis
alive and kicking
alive to
alive with
alizarin black s
alizarin blue black s
alizarin blue s
alizarin brown
alizarin crimson
alizarin cyanine
alizarin cyanine green
alizarin dye
alizarin red
alizarin saphirol
alizarin yellow
alk gum
alk gum tree
alkali albumin
alkali blue
alkali cellulose
alkali chlorosis
alkali disease
alkali flat
alkali grass
alkali heath
alkali metal
alkali metals
alkali metaprotein
alkali mustard
alkali reserve
alkali rock
alkali soil
alkali waste
alkali weed
alkali yellow r
alkaline cell
alkaline earth
alkaline earth metal
alkaline earths
alkaline metal
alkaline reaction
alkaline tide
alkaline water
alkaline-ash diet
alkaline-earth metal
alkaline-earth metals
alkane series
alkene series
alkyd paint
alkyd resin
alkyl cyanide
alkyl group
alkyl halide
alkyl hydrosulphide
alkyl radical
alkyne series
all aboard
all about
all abroad
all agog
all agreeing
all alone
all along
all along the line
all and some
all and sundry
all animate nature
all aquiver
all around
all at once
all ataunto
all atingle
all atwitter
all being
all bets off
all but
all by your lonesome
all clear
all comers
all creation
all depend
all ears
all engines
all engines ahead
all eyes
all eyes and ears
all fives
all flesh is grass
all fool's day
all fools' day
all for
all for one
all for the best
all fours
all get out
all get-out
all gone
all good go with you
all hail
all hands
all hollow
all hopped up about
all hot and bothered
all ills that men endure
all in
all in a dither over
all in all
all in good time
all in hand
all in the day's work
all in the mind
all in the wind
all included
all jaw
all joking apart
all joking aside
all kinds of
all nerves
all night
all of
all of a flutter
all of a heap
all of a sudden
all of a twitter
all off
all on
all on one side
all one
all out
all over
all over but the shouting
all over hell
all over the lot
all over the map
all over the place
all over the shop
all over the town
all over the world
all over with
all over yourself
all present and accounted for
all put together
all ready
all right
all right already
all round
all said and done
all saints
all saints’ day
all serene
all set
all set for
all shook up
all sorts
all sorts of
all souls
all souls’ day
all square
all squares
all standing
all straight
all tears
all that
all that is
all that is coming to one
all that lives
all the
all the best
all the better
all the better for
all the comforts of home
all the cry
all the day long
all the days of your life
all the heart can desire
all the ills that men endure
all the more
all the more so
all the rage
all the same
all the thing
all the time
all the way
all the way to
all the while
all the world
all the worse for
all the year round
all there
all things considered
all things counter
all three
all through
all through the night
all thumbs
all to
all to pieces
all to the good
all together
all told
all two
all up
all up with
all wet
all who love
all wool and a yard wide
all work
all wound up in
all wrapped up in yourself
all wrong
all you can bear
all you can do
all you can manage
all you can stand
all you can take
all your born days
all your got
all your natural life
dall' ottava
dall's well
dall-
dall-American
dall-a-mort
dall-abhorred
dall-able
dall-absorbing
dall-accomplished
dall-acting
dall-admired
dall-admiring
dall-advised
dall-affecting
dall-afflicting
dall-aged
dall-air
dall-amazed
dall-american
dall-appaled
dall-appointing
dall-approved
dall-approving
dall-armed
dall-around
dall-arraigning
dall-arranging
dall-assistless
dall-atoning
dall-attempting
dall-availing
dall-bearing
dall-beauteous
dall-beautiful
dall-beholding
dall-bestowing
dall-binding
dall-bitter
dall-black
dall-blasting
dall-blessing
dall-bounteous
dall-bountiful
dall-bright
dall-brilliant
dall-changing
dall-cheering
all-collected
all-colored
all-comfortless
all-commander
all-commanding
all-compelling
all-complying
all-composing
all-comprehending
all-comprehensive
all-comprehensiveness
all-concealing
all-conceiving
all-concerning
all-confounding
all-conquering
all-conscious
all-considering
all-constant
all-constraining
all-consuming
all-content
all-controlling
all-convincing
all-convincingly
all-covering
all-creating
all-creator
all-crop harvester
all-curing
all-daring
all-day
all-dazzling
all-deciding
all-defiance
all-defying
all-depending
all-designing
all-desired
all-despising
all-destroyer
all-destroying
all-devastating
all-devouring
all-dimming
all-directing
all-discerning
all-discovering
all-giver
all-glorious
all-golden
all-governing
all-gracious
all-grasping
all-great
all-guiding
all-hallow
all-hallowed
all-happy
all-healing
all-hearing
all-heeding
all-helping
all-hiding
all-holy
all-honored
all-hoping
all-hurting
all-idolizing
all-illuminating
all-imitating
all-important
all-impressive
all-in
all-in-one
all-including
all-inclusive
all-inclusiveness
all-infolding
all-informing
all-interesting
all-interpreting
all-invading
all-involving
all-jarred
all-judging
all-just
all-justifying
all-kind
all-knavish
all-knowing
all-knowingness
all-land
all-lavish
all-licensed
all-lovely
all-loving
all-maintaining
all-maker
all-making
all-maturing
all-meaningness
all-merciful
all-metal
all-might
all-miscreative
all-murdering
all-night
all-night vigil
all-noble
all-nourishing
all-obedient
all-obeying
all-oblivious
all-obsuring
all-oil
all-or-none
all-or-none law
all-ordering
all-out
all-out campaign
all-out war
all-over
all-overish
all-overishness
all-overpowering
all-overs
all-overtopping
all-panting
all-parent
all-pass
all-patient
all-peaceful
all-penetrating
all-peopled
all-perceptive
all-perfect
all-perfection
all-perfectness
all-perficient
all-persuasive
all-pervading
all-pervadingness
all-pervasive
all-pervasiveness
all-piercing
all-pitiless
all-pitying
all-pondering
all-possessed
all-potency
all-potent
all-potential
all-power
all-powerful
all-powerful ruler
all-powerfully
all-powerfulness
all-praised
all-praiseworthy
all-presence
all-present
all-prevailing
all-prevailingness
all-prevalency
all-prevalent
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quickening
all-rail
all-rapacious
all-reaching
all-red
all-redeeming
all-relieving
all-rending
all-righteous
all-round
all-round price
all-roundedness
all-rounder
all-rubber
all-ruling
all-sacred
all-sanctifying
all-satiating
all-satisfying
all-saving
all-sayer
all-sea
all-searching
all-seeing
all-seeingly
all-seeingness
all-seer
all-shaking
all-shamed
all-shaped
all-shrouding
all-shunned
all-sided
all-silent
all-sized
all-sliming
all-soothing
all sorts
all-soul
all-spaying
all-star
all-stars
all-steel
all-strangling
all-subduing
all-submissive
all-substantial
all-sufficiency
all-sufficient
all-sufficiently
all-sufficing
all-surpassing
all-surrounding
all-surveying
all-sustainer
all-sustaining
all-swallowing
all-swaying
all-telling
all-terrible
all-thorny
all-time
all-time great
all-tolerating
all-transcending
all-triumphing
all-truth
all-turned
all-turning
all-understanding
all-unwilling
all-upholder
all-upholding
all-various
all-vast
all-watched
all-water
all-wave receiver
all-weak
all-weather
all-weather fighter
all-weight
all-whole
all-wisdom
all-wise
all-wisely
all-wiseness
all-wondrous
all-wood
all-wool
all-working
all-worshipped
all-worthy
all-wrongness
all-year
alla bolognese
alla breve
alla cacciatore
alla capella
alla diavola
alla fiorentina
alla marcia
alla marinara
alla milanese
alla parmigiana
alla pizzaiola
alla prima
alla romana
alla siciliana
alla veneziana
alla vostra salute
allan hawk
allantoic membrane
allee couverte
allegation of facts
allege in support
allege in vindication
allegheny spurge
allemande sauce
aller sans dire
aller-retour
allergic disease
allergic disorder
allergic gastritis
allergic rhinitis
allergic shock
allergy diet
alley cat
alley-oop
allez-vous-en
alice shad
alligation alternate
alligation medial
alligator apple
alligator bonnets
alligator buttons
alligator cacao
alligator clip
alligator fish
alligator forceps
alligator gar
alligator head
alligator jaw
alligator juniper
alligator lizard
alligator pear
alligator pepper
alligator shear
alligator shears
alligator snapper
alligator snapping turtle
alligator squeezer
alligator terrapin
alligator tree
alligator turtle
alligator wampee
alligator weed
alligator wrench
alliterative meter
allo-
allo-octaploid
allow for
allow the occasion to go by
allow yourself to hope
allowance account
allowance race
allowed time
allowing that
alloy balance
alloy charge
alloy iron
alloy steel
alloyed junction
allspice oil
allspice tree
allude to
alluring gland
alluvial cone
alluvial fan
alluvial plain
allways fuze
ally-ally out'n free
allyl alcohol
allyl aldehyde
allyl caproate
allyl chloride
allyl group
allyl isothiocyanate
allyl mercaptan
allyl mustard oil
allyl radical
allyl resin
allyl sulfide
allyl sulphide
allyl thiocarbamide
alma mater
alma-materism
almain-rivets
almenn turma
almes se
almighty dollar
almond black
almond brown
almond cake
almond extract
almond eye
almond family
almond green
almond kernel
almond meal
alpine bartsia
alpine beardtongue
alpine bent grass
alpine birch
alpine bistort
alpine brook saxifrage
alpine campion
alpine catchfly
alpine chough
alpine clover
alpine cress
alpine eyebright
alpine fir
alpine fireweed
alpine forget-me-not
alpine garden
alpine geranium
alpine glacier
alpine goldenrod
alpine hemlock
alpine holy grass
alpine lady fern
alpine larch
alpine lousewort
alpine molewort
alpine oat grass
alpine poppy
alpine rice grass
alpine rock cress
alpine rose
alpine sedge
alpine spring beauty
alpine spruce
alpine strawberry
alpine tundra
alpine umbrella plant
alpine whitebark pine
alpine whorl grass
alpine woodsia
alps on alps
already in sight
alsike clover
also not
also-ran
alta vox
altar board
altar boy
altar bread
altar call
altar card
altar carpet
altar chime
altar cloth
altar desk
altar dues
altar facing
altar front
altar hearse
altar mound
altar of prothesis
altar of repose
altar plate
altar rail
altar side
altar slab
altar stair
altar stand
altar stead
altar stole
altar stone
altar tomb
altar wine
altazimuth mounting
alter ego
alter idem
alter into
alter your course
altered chord
alternate angles
alternate choice
alternate plumage
alternate school
alternate straight
alternate-leaved
alternating current
alternating current motor
alternating group
alternating light
alternating personality
alternating series
alternating voltage
alternating-current circuit
alternating-current servo
alternating-gradient focusing
alternation of generations
alternative school
alternative vote
alterni-
alti-
alti-rilievi
altitude dial
altitude mixture control
altitude of flight
altitude peak
altitude pressure
altitude sickness
alto clarinet
alto clef
alto flute
alto horn
alto saxhorn
alto viol
alto-
alto-cumulus
alto-cumulus-castellatus
alto-relievo
alto-relievos
alto-rilievo
alto-stratus
altocumulus castellanus
altocumulus castellatus
altocumulus floccus
altocumulus lenticularis
altocumulus stratiformis
altogether, the
altruistic ethics
aluhi resin
aludel furnace
alum cake
alum carmine
alum cochineal
alum flower
alum glass
alum haematoxylin
alum meal
alum rock
alum schist
alum shale
alum stone
alum-hypo toning process
alumina cement
alumina cream
alumina trihydrate
aluminio-
aluminium hydroxide
aluminium oxide
aluminium sulphate
alumino-
aluminous cake
aluminum acetate
aluminum ammonium sulfate
aluminum borate
aluminum borohydride
aluminum brass
aluminum bronze
aluminum carbide
aluminum chloride
aluminum family
aluminum fluosilicate
aluminum foil
aluminum gold
aluminum hydrate
aluminum hydroxide
aluminum monostearate
aluminum nitrate
aluminum oxide
aluminum paint
aluminum potassium sulfate
aluminum silicate
aluminum sulfate
aluminum sulphate
alun-alun
alva marina
alveolar arch
alveolar process
alveolar ridge
alveolo-
alveololabial sulci
alveololingual sulci
always and everywhere
always trot out
alyce clover
amalgam arc
amalgam gilding
amalgamation process
amande amere
amande douce
amande pralinee
amandes mondees
amanita hemolysin
amanita toxin
amarant family
amaranth family
amaranth pink
amaranth-purple
amarilis family
amassing evidence
amateur athlete
amateur band
amateur radio operator
amateur standing
amateur station
amateur status
amateur theatricals
amateur transmitter
amazing thing
amazon ant
ambary hemp
ambassador-at-large
ambassadors-at-large
amber brown
amber forest
amber jack
amber light
amber malt
amber mica
amber miner
amber oil
amber opal
amber pear
amber seed
amber snail
amber tree
amber yellow
amber-clear
amber-colored
amber-days
amber-dropping
amber-dropping hair
amber-headed
amber-hued
amber-locked
amber-tinted
amber-tipped
amber-weeping
amber-white
amber-yielding
ambi-
ambient phenomena
ambient temperature
ambiguous expression
ambil-anak
ambit piousness
ambitious for self
ambivalence of impulse
ambretta seed
ambrette seed
ambrette-seed oil
ambrosia beetle
ambs-ace
ambulacral foot
ambulance chaser
ambulance chasing
ambulatory plague
ambuling communion
ambush bug
ame damnee
amebic dysentery
amen corner
amende honorable
amende profitable
amende-honorable
amendes honorables
american chameleon
american cheese
american cowslip
american english
american indian
american ivy
american plan
american revised version
american sable
american saddle horse
american standard version
american trotter
americo-
ames-ace
amethyst cutter
amethyst violet
amiable weakness
amicable number
amici curiae
amicus curiae
amicus humani generis
amicus usque ad aras
amid the blaze of noon
amid-
amide powder
amido-
amido-urea
amidonaphthol red
amin-
amino acid
amino acids
amino azobenzene
amino group
amino nitrogen
amino radical
amino resin
amino-
amino-oxypruin
aminoacetic acid
aminobenzoic acid
aminquin naphthoate
aminsuccinic acid
ammo dump
ammo-
ammonia alum
ammonia condenser
ammonia gelatin
ammonia liquor
ammonia meter
ammonia nitrogen
ammonia process
ammonia soda
ammonia soda ash
ammonia soda process
ammonia solution
ammonia turpeth
ammonia valve
ammonia water
ammoniac plant
ammoniacal liquor
ammoniac-
ammonio-
ammonioferric oxalate
ammonium acetate
ammonium alum
ammonium amalgam
ammonium base
ammonium bicarbonate
ammonium bifluoride
ammonium binoxalate
ammonium bromide
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium chrome alum
ammonium chromic sulfate
ammonium cyanate
ammonium hydrosulphide
ammonium hydroxide
ammonium lactate
ammonium molybdate
ammonium nitrate
ammonium oxalate
ammonium persulphate
ammonium phosphate
ammonium purpurate
ammonium salt
ammonium selenate
ammonium stearate
ammonium sulfate
ammonium sulphate
ammonium sulphide
ammonium thiocyanate
ammonium thiosulfate
ammono acid
ammono base
ammono salt
ammunition box
ammunition bread
ammunition chest
ammunition depot
ammunition hoist
ammunition legs
ammunition scuttle
ammunition ship
ammunition shoes
amnesic aphasia
amnestic aphasia
amniotic fluid
amniotic sac
amobarbital sodium
amoeba disease
amoeban verse
amoebic dysentery
among other things
among the blest
among the living
among us
amor patriae
amorous dalliance
amorous looks
ampus-and
amrad gum
amuse yourself
amusement arcade
amusement device
amusement park
amusement ride
amusement tax
amygdalic acid
amygdalo-uvular
amygdaloid nucleus
amygdonitrile glucoside
amyl acetate
amyl alcohol
amyl ether
amyl group
amyl isovalerate
amyl nitrite
amyl oxide
amyl propionate
amyl radical
amyl salicylate
amyl sulfide
amyl-
amyl-acetate lamp
amylacetic ether
amylene hydrate
amylo-
amyloid degeneration
amylum body
amylum center
amylum grain
amylum star
amyotrophic lateral sclerosis
amyris oil
an O without a figure
an arm and a leg
an arrant
an average
an awfully big adventure
an ear for
an eater of broken meats
an echo of the invisible world
an emblem
an epidemic insanity
an error
an eternity
an existence
an eye for
an eye for an eye
an in
an incurable disease
an inhabiting
an instant arrested in eternity
an intelligence served by organs
an itch for the praise of fools
an old dog at
an old hand at
an uncertainty
an unfathomable Somewhat
an unhappy crossbreed
an universal wolf
an-
an-end
ana-
anabolic steroid
anacardium nut
anaconda gourd
anadama bread
anaerobic bacteria
anaerobic organism
anak kuching
anal canal
anal character
anal fin
anal intercourse
anal sex
anal vein
analcite basalt
analog computer
analog feedback control
analog process
analog-digital converter
analogue computer
analogy test
analysis of variance
analysis situs
analytic continuation
analytic faculty
analytic geometry
analytic philosopher
analytic philosophy
analytic power
analytic psychology
analytical balance
analytical chemistry
analytical control unit
analytical cubism
analytical cubist
analytical geometry
analytical mechanics
analytical psychology
analytical spectrometer
analyticco-architectural
analyze your motives
analyzed rhyme
anamite yeast
anamorphic lens
ananas oil
anaphylactic antibody
anaphylactic shock
anarcho-syndicalism
anarcho-syndicalist
anastomotic operation
anathema maranatha
anatomic diagnosis
anatomic medicine
anatomical pathology
anatomical snuffbox
anatomico-
apace errand
ancestor worship
ancestral halls
ancestral spirits
anchieta bark
anchor ball
anchor bar
anchor bed
anchor bell
anchor bend
anchor bolt
anchor box
anchor buoy
anchor chain
anchor chock
anchor dart
anchor deck
anchor drag
anchor escapement
anchor hold
anchor hoy
anchor ice
anchor knot
anchor lift
anchor light
anchor lining
anchor link
anchor log
anchor man
anchor money
anchor nurse
anchor plant
anchor plate
anchor pocket
anchor ring
anchor rocket
anchor rod
anchor rode
anchor shackle
anchor shot
anchor space
anchor span
anchor tee
anchor watch
anchor watchman
anchor well
anchor-shaped
anchorage ground
anchorite monasticism
anchoritic monasticism
anchors aweigh
anchovy pear
ancien regime
ancien rgime
ancienne noblesse
ancient history
ancient language
ancient literature
ancient manuscript
ancient times
ancient wisdom
and Cultural Organization
and God knows what
and Harry
and Holy Ghost
and I don't know what
and Ireland
and Robinson
and Slovenes
and Welfare
and a light unto my path
and a pull all together
and all
and all like that
and all that
and all that sort of thing
and also
and an eminently contagious one
and ancient as the sun
and arithmetic
and barrel
and be merry
and blue
and bobtail
and built by hands divine
and candle
and circuit
and circumstance
and collected
and crack your cheeks
and delivered
and dissolve itself
and everything else
and everywhere
and fish
and flesh of my flesh
and handsome
and happy
and hates them for it
and heaven knows what
and jump
and keep your powder dry
and listen
and making it five
and many more
and more of the same
and night
and no mistake
and not
and nothing but the truth
and of Night
and off the hinges
and other things
and others
and pence
and pine
and portents and evils imminent
and pursue it
and quarter
and quit yourselves like men
and running over
and shaken together
and sinker
and so
and so forth
and so on
and strengt
and stuff like that
and suchlike
and tell them
and the blind
and the fish of the sea
and the following
and the like
and the post
and the pursuit of happiness
and the queen of sleep
and the rest
and the seeing of blind
and the waste of life
and then some
and unprofitable
and weep with them that weep
and what have you
and what not
and-
anda oil
anda-assu
anda-assu oil
andante moderato
andante tempo
andr-
andro-
androgenital syndrome
anem-
anemia lymphatica
anemo-
anemone camphor
anemone fish
anemone-flowered dahlia
aneroid barograph
aneroid barometer
aneroid capsule
anesthetic ether
ang-khak
angel bed
angel cake
angel fish
angel food
angel food cake
angel gold
angel light
angel of death
angel of light
angel of love
angel red
angel shark
angel shot
angel sleeve
angel tree
angel water
angel's footstool
angel's tears
angel's-trumpet
angel-borne
angel-bright
angel-builted
angel-eyed
angel-faced
angel-guarded
angel-heralded
angel-noble
angel-seeming
angel-warned
angelic host
angelica tree
angelica-root
angelin seeds
angels' tears
angels-on-horseback
angi-
angico gum
angina pectoris
angio-
angioneurotic edema
angle away
angle bar
angle bead
angle beam
angle board
angle brace
angle bracket
angle brackets
angle brick
angle bulb
angle capital
angle chair
angle cleat
angle clip
angle collar
angle for
angle gear
angle iron
angle measurement
angle meter
angle of attack
angle of bank
angle of climb
angle of dead rise
angle of deviation
angle of dip
angle of heel
angle of incidence
angle of lag
angle of lead
angle of pitch
angle of polarization
angle of reflection
angle of refraction
angle of repose
angle of roll
angle of sideslip
angle of stabilizer setting
angle of view
angle of vision
angle of wing setting
angle of yaw
angle off
angle plate
angle rafter
angle reflector
angle rib
angle set
angle shaft
angle shear
angle staff
angle steel
angle tie
angle with a silver hook
angle-off
angle-rack tool
angled draft
angled-toothed
angler fish
anglo-
anglo-catholic
anglo-french
anglo-indian
anglo-norman
anglo-saxon
angora cat
angora goat
angora rabbit
angostura bark
angostura bitters
angry clouds
angry look
angry young man
angry young woman
angry-eyed
angry-looking
angstrom unit
angstrom unit Angstrom
angular acceleration
angular data
angular dispersion
angular displacement
angular frequency
angular geometric
angular geometric figures
angular leaf spot
angular magnification
angular momentum
angular momentum quantum number
angular motion
angular perspective
angular velocity
angular-toothed
angular-winged katydid
angulated sail
angulato-
angulo-
anguloso-
angusti-
anhalonium alkaloid
anharmonic ratio
anhydro base
anhydro-
anidian monster
aniline black
aniline blue
aniline dye
aniline hydrochloride
aniline oil
aniline purple
aniline salt
aniline yellow
anima aloes
anima bruta
anima humana
anima mundi
animadvert on
animadvert upon
animal abode
animal and vegetable kingdom
animal black
animal capable of reason
animal carver
animal cell
animal cellulose
animal charcoal
animal charge
animal color
animal comfort
animal cracker
animal culture
animal cunning
animal disease
animal diseases
animal dyestuff
animal electricity
animal enclosure
animal faith
animal fiber
animal flower
animal force
animal handler
animal heat
animal husbandman
animal husbandry
animal hypnosis
animal kingdom
animal life
animal like types
animal magnetism
animal mechanics
animal mound
animal nature
animal noise
animal oat
animal oil
animal oils
animal physiologist
animal physiology
animal pleasure
animal pole
animal psychology
animal raiser
animal raising
animal rearing
animal rouge
animal science
animal scientist
animal size
animal soul
animal sound
animal spirit
animal spirits
animal starch
animal stuffer
animal stuffing
animal unit
animal worship
animal worshiper
animal young
animal-sized
animate existence
animate matter
animated cartoon
animated oat
animating force
animating power
animating principle
animating spirit
animation photography
animis opibusque parati
animistic spirit
animus cancellandi
animus capiendi
animus derelinquendi
animus furandi
animus injuriandi
animus lucrandi
animus manendi
animus possidendi
animus recipiendi
animus remanendi
animus revertendi
ante-
ante-Christum
ante-Nicaean
ante-Nicene
ante-Nicene Fathers
ante-acted
ante-ambulo
ante-bellum
ante-chapel
ante-ecclesiastical
ante-eternity
ante-mortem
ante-mortem clot
ante-orbital
ante-partum
ante-room
ante-temple
antecedent right
antecedent used in
antediluvian patriarch
antelope brush
antelope chipmunk
antelope squirrel
antenna array
antenna circuit
antenna filter
antenna grounding switch
antenna inductance
antenna mine
antenna resistance
antenna switch
antenna tower
antennae sword
antennal gland
antennal lobe
antenuptial contract
antenuptial settlement
anterior pituitary
anterior pituitary luteotropin
anterior tooth
antero-
anterograde amnesia
anterograde memory
anth-
anthelic arcs
anther cell
anther lobe
anther sac
anther smut
antho-
anthra-
anthracene brown
anthracene oil
anthracene yellow
anthracite black
anthracite coal
anthraquinone dye
anthrax vaccine
anthrop-
anthropo-
anthropoid ape
anti-
anti-American
anti-Arab
anti-Aristotelian
anti-Aristotelianism
anti-Australian
anti-Austria
anti-Austrian
anti-Bible
anti-Biblical
anti-Biblically
anti-Bolshevik
anti-Bolshevism
anti-Bolshevist
anti-Bolshevistic
anti-British
anti-Calvinism
anti-Calvinist
anti-Calvinistic
anti-Calvinistical
anti-Catholic
anti-Catholicism
anti-Darwin
anti-Darwinian
anti-Darwinism
anti-Darwinist
anti-English
anti-Europe
anti-European
anti-Europeanism
anti-France
anti-French
anti-Freud
anti-Freudian
anti-Freudianism
anti-G suit
anti-German
anti-Germanic
anti-Germanism
anti-Germanization
anti-Greece
anti-Greek
anti-Irish
anti-Italian
anti-Italianism
anti-Japanese
anti-Jesuit
anti-Jesuitic
anti-Jesuitical
anti-Jesuitically
anti-Jesuitism
anti-Jesuitry
anti-Jewish
anti-Judaic
anti-Judaism
anti-Judaist
anti-Judaistic
anti-Latin
anti-Latinism
anti-Malthusian
anti-Malthusianism
anti-Mexican
anti-Negro
anti-Negroes
anti-Negroism
anti-Nordic
anti-Oriental
anti-Orientalism
anti-Orientalist
anti-Plato
anti-Platonic
anti-Platonically
anti-Platonism
anti-Platonist
anti-Polish
anti-Populist
anti-Protestant
anti-Protestantism
anti-Puritan
anti-Puritanism
anti-Roman
anti-Romanist
anti-Russia
anti-Russian
anti-Scandinavia
anti-Scripture
anti-Scripturist
anti-Semite
anti-Semitic
anti-Semitism
anti-Serb
anti-Slav
anti-Slavic
anti-Socrates
anti-Socratic
anti-Soviet
anti-Spain
anti-Spanish
anti-Sweden
anti-Swedish
anti-Teuton
anti-Teutonic
anti-Trinitarian
anti-Trinitarianism
anti-Turkish
anti-Zionism
anti-Zionist
anti-acid
anti-aircraft
anti-attrition
anti-birmingham
anti-christian
anti-depressant
anti-emetic
anti-ethmc
anti-federalist
anti-gallic
anti-gallican
anti-gallican hitch
anti-gallicanism
anti-god
anti-guggler
anti-hero
anti-heroic
anti-hog-cholera
anti-icer
anti-icteric
anti-idealism
anti-idealist
anti-idealistic
anti-idealistically
anti-idolatrous
anti-immigration
anti-immigrationist
anti-immune
anti-imperialism
anti-imperialist
anti-imperialistic
anti-incrustator
anti-indemnity
anti-induction
anti-inductive
anti-inductively
anti-inductiveness
anti-infallibilist
anti-infantal
anti-innovationist
anti-intellectual
anti-intellectualism
anti-intellectualist
anti-intellectuality
anti-intermediary
anti-isolation
anti-isolationism
anti-isolationist
anti-isolysin
anti-jacobin
anti-jacobinism
anti-laissez-faire
anti-leaguer
anti-lecomption
anti-lecomptom
anti-maniacal
anti-mony-yellow
anti-nebraska
anti-nicaean
anti-novel
anti-novelist
anti-odontalgic
anti-open-shop
anti-orgastic
anti-over
anti-pre-existentiary
anti-roman
anti-semite
anti-sub rocket
anti-submarine rocket
anti-trade
anti-worlds
antiaircraft artillery
antiaircraft barrage
antiaircraft fire
antiaircraft gun
antiaircraft gun positioner
antiaircraft radar
antiaircraft rocket
antiballistic missile
antiballistic-missile system
antiberm factor
anticrepuscular arch
antidote cacoon
antidote lily
antidrag wire
antifouling paint
antifriction bearing
antifriction curve
antifriction metal
antifriction wheels
antigen treatment
antigen-antibody product
antilift wire
antimine rocket
antimissile missile
antimonionic acid
antimoniousos-
antimonious hydride
antimony blende
antimony bloom
antimony chloride
antimony cinnabar
antimony crocus
antimony crude
antimony glance
antimony glass
antimony hydride
antimony ocher
antimony orange
antimony oxide
antimony oxychloride
antimony pentachloride
antimony pentasulfide
antimony pentasulphide
antimony pentoxide
antimony potassium tartrate
antimony red
antimony regulus
antimony rubber
antimony saffron
antimony salt
antimony sulfate
antimony sulfide
antimony sulphide
antimony tetroxide
antimony trichloride
antimony trifluoride
antimony trioxide
antimony trisulfide
antimony trisulphide
antimony vermilion
antimony white
antimony yellow
antimonyl potassium tartrate
antinoise microphone
antiophthalmic factor
antiophthalmic vitamin
antipernicious anemia factor
antipersonnel bomb
antipersonnel mine
antiphonal chanting
antiphonal singing
antipodal points
antiquated expression
antiquated person
antiquated word
antique brass
antique bronze
antique brown
antique cloth
antique collector
antique crown
antique dealer
antique drab
antique glass
antique gold
antique green
antique plane
antique red
antique store
antique-car collector
antiradar rocket
antiseptic surgery
antisocial attitudes
antisocial personality
antisocial sentiments
antisterility factor
antisubmarine bomb
antisubmarine mortar
antisubmarine patrol
antisubmarine plane
antisubmarine projector
antisubmarine radar
antisymmetrical tensor
antitank gun
antitank mine
antitank rifle
antitank rocket
antitorque rotor
antitoxic globulin
antitoxic serum
antitwilight arch
antixerophthalmic vitamin
antler moth
antlion fly
ants in your pants
antsy-pantsy
anvil block
anvil chisel
anvil cloud
anvil cupper
anvil cutter
anvil dross
anvil forger
anvil maker
anvil top
anvil vise
anvil-drilling
anvil-faced
anvil-facing
anvil-headed
anxiety equivalent
anxiety hysteria
anxiety neurosis
anxiety reaction
anxiety state
anxious bench
anxious concern
anxious for
anxious seat
aperture ratio
aperture stop
aperture vignette
apet-
apex beat
apex rule
aph-
aphid lion
aphid rosette
aphid-lion
aphis fly
aphis foot
aphis lion
aphis wolf
aphis-lion
aphlogistic lamp
aphthous fever
aphthous stomatitis
apical meristem
apico-alveolar
apico-dental
aplastic anemia
apo-
apocha trium annorum
apocrine gland
apologize for
apoplectic stroke
aposematic mimicry
apostle bird
apostle jug
apostle spoon
apostles' creed
apostolic age
apostolic brief
apostolic church
apostolic delegate
apostolic faith
apostolic father
apostolic orders
apostolic succession
apostolic vicar
apothecaries' measure
apothecaries' weight
apothecary jar
apothecary's shop
appalachian tea
apparatus belli
apparatus criticus
apparent candlepower
apparent character
apparent destiny
apparent fate
apparent heir
apparent horizon
apparent magnitude
apparent soundness
apparent time
apparent wind
apparently sound
appeal motion
appeal to
appeal to a higher court
appeal to arms
appeal to the country
appeal to the law
appeal to the sword
appeal to you for
appeal to your better feelings
appear for
appear in print
appear like
appear on the horizon
appear on the scene
appear on the stage
appear to be
appear to your eyes
appear unexpectedly
appearance money
appearances are in favor of
appellate court
appellate division
appellate jurisdiction
appendico-enterostomy
appendicular skeleton
appendix vermiformis
apperception mass
apperception test
appertain to
appetizing store
applaud to the very echo
apple anthracnose
apple aphid
apple banana
apple bee
apple blight
apple blossom
apple blotch
apple box
apple brandy
apple bucculatrix
apple butter
apple canker
apple cheese
apple curculio
apple dumpling
apple essence
apple family
apple fly
apple fritter
apple geranium
apple grain aphid
apple green
apple grunt
apple gum
apple haw
apple juice
apple knocker
apple leaf
apple maggot
apple mildew
apple mint
apple moss
apple moth
apple of discord
apple of your eye
apple oil
apple pandowdy
apple pie
apple polisher
apple pox
apple psylla
apple rosette
apple rust
apple sauce
apple scab
apple scald
apple scale
apple shell
apple slump
apple snail
apple sucker
apple tart
apple toddy
apple tree
apple tree borer
apple turnover
apple weevil
apple wine
apple worm
apple-cheeked
apple-eating
apple-faced
apple-fallow
apple-john
apple-pie
apple-pie bed
apple-pie order
apple-polish
apple-polisher
apple-polishing
apple-scented
apple-shaped
apple-stealing
apple-twig
apple-twig beetle
apple-twig borer
applejack brandy
apples and pears
appleton layer
appletree borer
applicate number
application for retrial
application lace
applied chemistry
applied kinematics
applied linguistics
applied mathematics
applied mechanics
applied physics
applied psychology
applied science
applied tactics
applique lace
apply for
apply margin
apply paint
apply pressure
apply reason
apply the attention to
apply the match to
apply the mind
apply the mind to
apply the torch to
apply the yardstick to
apply to
apply yourself
apply yourself to
applying color
appoint yourself
appointed lot
appointment calendar
appointment schedule
apportionment bill
apposition beach
appositive genitive
appraisal clause
appreciate differences
appreciation bond
appreciation of differences
appreciation of excellence
appreciative of
apprentice printer
apprentice seaman
apprentice teacher
apprentice work
apprentice yourself to
apprised of
approach anchorage
approach leg
approach light
approach of time
approach path
approach shot
approach trench
appropriate for
appropriate to
appropriation bill
approval book
approval sheet
approve of
approved school
apricot brandy
apricot palm
apricot plum
apricot scale
apricot sour
apricot vine
apricot wine
apricot yellow
aqueous humour
aquiline-nosed
aquo-ion
ar-
arabian coffee
arabic numeral
arabica coffee
arable land
arachidic acid
arachis oil
arachnoid granulation
arachnoid membrane
arba kanfoth
arbiter elegantiae
arbiter elegantiarum
arbiter of fashion
arbiter of taste
arbitrament of the sword
arbitrated par
arbitration bar
arbitration treaty
arbor day
arbor press
arbor shaft
arbor vine
arbor vitae
arborization block
arborvitaee leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
arc flame
arc furnace
arc generator
arc lamp
arc light
arc lighting
arc pitch
arc process
arc secant
arc sine
arc spectrum
arc tangent
arc transmitter
arc weld
arc welder
arc welding
arc-back
arc-boutant
arc-jet engine
arc-over
arc-shaped
arcane meaning
arcanum arcanorum
arch aurora
arch bar
arch barrel
arch beam
arch board
arch brace
arch brick
arch bridge
arch buttress
arch dam
arch head
arch order
arch over
arch press
arch ring
arch solid
arch spring
arch stone
arch support
arch-
arch-brahman
arch-butler
arch-buttress
arch-chanter
arch-christendom
arch-christianity
arch-enemy
arch-fiend
arch-flamen
arch-foe
arch-gravity dam
arch-heretic
arch-poet
arch-prelate
arch-presbyter
arch-protestant
arch-sea
arch-traitor
arch-villain
arch-whig
archae-
archaeo-
archaic smile
archaic white race
arched roof
arched truss
archepiscopal cross
archery ground
arches-court
archetypal idea
archetypal image
archetypal myth
archetypal pattern
archetypal symbol
archetypal world
archi-
archiepiscopal cross
archil extract
archil liquor
archimedes’ screw
archippus butterfly
architect’s table
architectural bronze
architectural capitals
architectural draftsman
architectural engineer
architectural ornamentation
architectural ornamentations
architectural sculpture
architectural topping
architectural toppings
architecture styles
arcing contact
arcing jaws
arcs-boutants
arctic char
arctic circle
arctic fox
arctic rescue helicopter
arctic sea smoke
arctic seal
arctic smoke
arctic tern
arctic timothy
arctico-altaic
arcus senilis
arcwise connected set
ardent friend
ardent friendship
ardent imagination
ardent spirits
ardor urinae
area bombing
area code
area gate
area graph
area measure
area measures
area opaca
area pellucida
area rule
area sneak
area study
area vasculosa
area vector
area vitellina
area wall
area-moment method
areal linguistics
areca catechu
areca nut
areca palm
arena theater
arena theatre
arenaceo-
arenoso-
areo-
areolate mildew
argan oil
argan tree
argemone oil
argent-vive
argentella lace
argentine thistle
argento-
argento-cuprous sulfide
argillaceo-
argillo-
arginine phosphagen
argle-bargie
argle-bargle
argon lamp
argon potassium dating
argue at the bar
argue down
argue for
argue insincerely
argue into
argue to no purpose
argue your case
argue-bargue
argument by analogy
argument from design
argument principle
argumentMaths
arguments at the bar
argumentum a fortiori
argumentum ad baculum
argumentum ad captandum
argumentum ad captandum vulgus
argumentum ad hominem
argumentum ad rem
argumentum baculinum
argus brown
argus pheasant
argus shell
argus tortoise beetle
argus-eyed
argy-bargied
argy-bargies
argy-bargy
argy-bargying
argyr-
arh-
aria buffa
aria cantabile
aria d'agilita
aria d'imitazione
aria da capo
aria da chiesa
aria di bravura
aria di coloratura
aria fugata
aria parlante
aria singer
arias da capo
arid region
ariel gazelle
ariel petrel
ariel toucan
arise and go to
arise from
arising from
aristo-
aristocratic disdain
aristocratic presumption
arithmetic mean
arithmetic progression
arithmetic series
arithmetical progression
arithmetical proportion
arithmetico-geometric
arithmetico-geometrical
arithmo-
arjun wax
ark shell
arkwright furniture
arle penny
arles penny
arm band
arm board
arm coil
arm garter
arm gear
arm guard
arm in arm
arm of the law
arm of the sea
arm of the service
arm stake
arm viol
arm wrestling
arm-chair
arm-great
arm-headed
arm-hole
arm-in-arm
arm-linked
arm-shaped
armadillo shell
armature assembler
armature bander
armature binder
armature reaction
armature winder
armature winding
armchair authority
armchair philosopher
armed and ready
armed assault
armed at all points
armed bullhead
armed cap-a-pie
armed combat
armed conflict
armed force
armed forces
armed guard
armed neutrality
armed robbery
armed service
armed to the teeth
armed with patience
armes parlantes
armillary sphere
arming cap
arming chest
arming doublet
armistice day
armless chair
armor belt
armor grating
armor plate
armor plating
armor-bearer
armor-clad
armor-piercing
armor-plate
armor-plated
armored cable
armored car
armored combat
armored corps
armored cruiser
armored dinosaur
armored forces
armored heart
armored scale
armored tactics
armored vessel
armorial bearings
armour plate
armour-bearer
armour-clad
armour-piercing
armour-plate
armoured car
armoured troops
arms of Morpheus
arms race
army ant
army area
army brat
army brown
army corps
army cutworm
army engineer
army engineering
army group
army nurse corps
army of occupation
army reserves
army service corps
army troops
army worm
arnica bud
aroint thee
aromatic compound
aromatic gum
aromatic spirits of ammonia
aromatic water
aromatized wine
around the bush
around the clock
around-the-clock
arouse notice
arouse the memory
arouse your enthusiasm
arouse your passion
arrange a match
arrange evidence
arrange for
arrange in layers
arrange in levels
arrange in strata
arrange in tiers
arrange itself
arrange matters
arrange your ideas
arrange your thoughts
arrant coward
arras-wise
arrear-guard
arrear-ward
arrest attention
arrest of judgment
arrest the thoughts
arrest your notice
arrested development
arresting gear
arrestor hook
arriere fee
arriere tenant
arriere vassal
arriere-ban
arriere-pensee
arris fillet
arris gutter
arris piece
arris rail
arrive at
arrive at a conclusion
arrive at an agreement
arrive in
arrive upon
arrogate to yourself
arrow aimed at your heart
arrow arum
arrow cane
arrow for
arrow grass
arrow horn
arrow maker
arrow making
arrow mehl
arrow release
arrow rest
arrow shot
arrow snake
arrow stave
arrow straightener
arrow-back
arrow-back chair
arrow-bearing
arrow-grass
arrow-grass family
arrow-head
arrow-leaved
arrow-root
arrow-shaped
arrow-slain
arrow-smitten
arrow-toothed
arrow-wood
arrow-wounded
arrowroot family
arroyo grape
arroyo willow
arroz con pollo
ars est celare artem
ars gratia artis
ars longa vita brevis
ars nova
ars poetica
arse licker
arsenic acid
arsenic antidote
arsenic bloom
arsenic calciner
arsenic disulfide
arsenic eater
arsenic eating
arsenic glass
arsenic green
arsenic mirror
arsenic mold
arsenic monosulfide
arsenic orange
arsenic refiner
arsenic smelter
arsenic trichloride
arsenic trioxide
arsenic yellow
arsenic-
arsenical babbitt
arsenical pyrite
arsenio-
arsenious acid
arsenious oxide
arseniuretted hydrogen
arseno group
arseno radical
arseno-
arsenous acid
arsenous anhydride
arsenous oxide
arsha rite
arsino group
arsino radical
arson investigator
arsy-varsiness
arsy-varsy
arsy-versy
art-colored
art-conscious
art-like
art-minded
artemisia green
arteri-
arterial aneurism
arterial blood
arterial highway
arterial street
arterial transfusion
arterial varix
arterio-
arteriosclerotic psychosis
artery forceps
artesian borer
artesian well
artful dodge
artful endearments
arthr-
arthritis deformans
arthritis fungosa
arthritis pauperum
arthro-
artichoke bottom
artichoke green
article of commerce
article of faith
article of merchandise
article of virtu
article writer
articled clerk
articles of association
articles of faith
articles of religion
articulated locomotive
articulated lorry
articulatory phonetics
artificer branch
artificial aids
artificial antenna
artificial blond
artificial dye
artificial feedback kidney
artificial feel
artificial fiber
artificial heart
artificial horizon
artificial immunity
artificial insemination
artificial intelligence
artificial isotope
artificial kidney
artificial lake
artificial language
artificial languages
artificial leech
artificial magnet
artificial nucleation
artificial pacemaker
artificial person
artificial radioactivity
artificial respiration
artificial satellite
artificial satellites
artificial selection
artificial sweetener
artificial turf
artificial voice
artillery hub
artillery park
artillery plant
artillery train
artillery wagon
artillery wheel
artisan work
artist lithography
artist's model
artist's proof
artist-in-residence
artiste-peintre
artistic administrator
artistic director
artistic flair
artistic imagination
artistic invention
artistic judgment
artistic production
artistic quality
artistic school
artistic skill
artistic style
artistic taste
artistic temperament
artists' canvas
arts and crafts
arts college
arts of design
arts-man
arts-master
artsy-craftsiness
artsy-craftsy
arty-craftiness
arty-crafty
arum family
arum lily
aryl group
aryl radical
aryteno-
aryteno-epiglottic
arytenoid cartilages
as I live and breathe
as a body
as a bonus
as a case in point
as a consequence
as a cover
as a cover-up
as a gift
as a guess
as a joke
as a matter of course
as a matter of fact
as a matter of form
as a pretext
as a profession
as a replacement for
as a result
as a result of
as a rough guess
as a rule
as a substitute for
as a vocation
as a whole
as agreed upon
as all creation
as all get-out
as an alibi
as an alternative
as an alternative to
as an approximation
as an example
as an excuse
as an instance
as attested by
as bad as bad can be
as bad as they come
as bad as they make 'em
as best as you can
as big as life
as boundless as the sea
as broad as long
as can be
as chaste as Diana
as chaste as unsunn'd snow
as clear as day
as close as a vise
as cold as any stone
as compared with
as compensation
as contracted for
as destiny wills
as earnest
as every schoolboy knows
as expected
as far as
as far as I am concerned
as far as possible
as far as the eye can see
as far as you can see
as far as you can tell
as far as you desire
as far as you know
as fate wills
as firm as a stone
as fit as a fiddle
as for
as full as a tick
as good as
as good as good can be
as good as they come
as good as they make 'em
as good as your word
as hard as nails
as here defined
as here interpreted
as how
as if
as ill luck would have it
as in duty bound
as is
as is fitting
as is just
as is only fair
as is only right
as is proper
as is right
as is the custom
as is usual
as is your due
as is your right
as is your wont
as it chanced
as it has been said
as it is
as it is said
as it may be
as it may chance
as it may happen
as it may turn out
as it may turn up
as it ought to be
as it pleases yourself
as it seems
as it seems best
as it seems good
as it should be
as it suits yourself
as it was said of old
as it were
as large as life
as lief
as lief as not
as lies in your power
as like as can be
as like as eggs
as like as two peas in a pod
as lissome as a hazel wand
as little as may be
as long as
as long as your arm
as luck wills
as luck would have it
as matters stand
as may be
as may be expected
as merry as the day is long
as much again
as much as
as much as in one lies
as much as lieth in you
as much as to say
as near as makes no difference
as near as no matter
as new
as no one would have predicted
as of
as of a chapter
as of now
as often as can be
as often as not
as often as you like
as often as you wish
as one
as one goes
as one man
as ordered
as our guest
as per usual
as plain as a pikestaff
as plain as plain can be
as promised
as proud as Punch
as proxy for
as red
as regards
as representing
as required
as respects
as safe as houses
as seen
as soon
as soon as
as such
as sure as I live and breathe
as the case may be
as the crow flies
as the day is long
as the fellow says
as the matter stands
as the saying goes
as the saying is
as the sparks fly upward
as the story goes
as the story runs
as the tree falls
as the world goes
as they say
as things are
as things go
as things may fall
as things turn out
as things worked out
as thou wilt
as though
as tightfisted as a kulak
as times go
as to
as transient as the clouds
as usual
as well
as well as
as well as can be said
as who should say
as wide asunder as pole and pole
as yet
as you may have suspected
as you might suppose
as you might think
as you please
as you say
as you sees it
as you think best
as you will
as you wish
as-
asa dulcis
asafetida oil
asarum camphor
asarum oil
asbestos blanket
asbestos board
asbestos braid
asbestos carder
asbestos cement
asbestos cloth
asbestos covering
asbestos crusher
asbestos curtain
asbestos doubler
asbestos felt
asbestos fiber
asbestos filter
asbestos flooring
asbestos lagging
asbestos lining
asbestos listing
asbestos lumber
asbestos paper
asbestos porcelain
asbestos rock
asbestos tile
asbestos toaster
asbestos weaver
asbestos wood
asbestos-coated
asbestos-corrugated
asbestos-covered
asbestos-packed
asbestos-protected
asbestos-welded
ascend the throne
ascending aorta
ascending colon
ascending node
ascension day
ascetical theology
asclepias butterfly
asco-
ascorbic acid
ascot tan
ascot tie
ascribe importance to
ascribe to
ascus fruit
aseptic surgery
asexual generation
asexual reproduction
ash barrel
ash bin
ash blond
ash bread
ash bud
ash cake
ash can
ash canker
ash cart
ash chute
ash collector
ash color
ash cone
ash furnace
ash gray
ask for pity
ask for your hand
ask forgiveness
ask in exchange
ask leave of no man
ask no favors
ask no quarter
ask offers for
ask questions
ask the impossible
asked price
asking bid
asking price
asleep at the switch
asleep in Jesus
asleep in the Lord
asleep on the job
asleep on your feet
asp viper
asparagric acid
asparaginic acid
asparagus bean
asparagus beetle
asparagus broccoli
asparagus fern
asparagus lettuce
asparagus pea
asparagus stone
aspartic acid
aspect ratio
aspen poplar
asphalt cement
asphalt grout
asphalt jungle
asphalt macadam
asphalt mastic
asphalt oil
asphalt paint
asphalt paper
asphalt rock
asphalt tile
asphalt-base
asphalt-base oil
asphodel green
asphyxia neonatorum
asphyxiating gas
aspirating stroke
aspiration pneumonia
aspire after
aspire to
ass between two bundles of hay
ass in lion's skin
ass over elbows
ass parsley
ass-backwards
ass-chewing
ass-ear
ass-head
ass-headed
ass-kisser
ass-kissing
ass-licker
ass-licking
ass-reaming
ass-ship
assai palm
assail the ear
assail the nostrils
assassin bug
assault and battery
assault and robbery
assault boat
assault line
assault sexually
assault the ear
assault transport
assault-troop plane
assay balance
assay bar
assay beam
assay crucible
assay cup
assay flask
assay foot
assay furnace
assay groove
assay mill
assay office
assay oven
assay pound
assay ton
assay-office bar
assembling mark
assembly conveyer
assembly district
assembly hall
assembly language
assembly line
assembly plant
assembly room
assembly routine
assembly-line housing
assembly-line production
assent grudgingly
assent to
assent under protest
assented bond
assert a claim to
assert a right to
assert a title to
assert the contrary
assert under oath
assert yourself
assertiveness training
asses’ bridge
assess a tax upon
assessable stock
assessed valuation
assessment company
assessment insurance
assessment on default
assessment work
asset currency
asset-stripping
assets and liabilities
assign lessons
assign to
assign to a place
assignation house
assigned counsel
assigned risk
assigned task
assigned to
assignment of cause
assimilate to
assimilate with
assistant agent
assistant auditor
assistant barber
assistant bookkeeper
assistant buyer
assistant cashier
assistant chemist
assistant chief
assistant clerk
assistant deputy
assistant director
assistant driver
assistant druggist
assistant editor
assistant engineer
assistant examiner
assistant foreman
assistant guard
assistant housekeeper
assistant inspector
assistant janitor
assistant janitress
assistant librarian
assistant manager
assistant professor
associate professor
associate with
associate yourself with
associated statehood
association area
association book
association by contiguity
association by similarity
association by sound
association copy
association fiber
association football
association neuron
association neurosis
association of ideas
association psychology
association test
association time
associative algebra
associative anamnesis
associative neuron
assort with
assume airs
assume command
assume the
assume the guise of
assume the identity of
assume the offensive
assumed bond
assumed name
assumed position
assuming that
assumption of superiority
assure yourself
assured faith
assured of success
assured probity
astable circuit
astasia-abasia
astatic galvanometer
aster daisy
aster family
aster purple
aster ray
aster yellows
asterias swallowtail
asthma herb
asthma paper
asthma weed
asthmatic cigarette
asthmatic wheeze
astigmatic lens
astonishing thing
astr-
astragal Architect
astrakhan cloth
astral body
astral crown
astral influences
astral lamp
astral plane
astral projection
astral ray
astral spirit
astringent bitters
astro hatch
astro station
astro-
astro-inertial guidance
astro-meteorology
astronomical almanac
astronomical calendar
astronomical chart
astronomical clock
astronomical day
astronomical distance
astronomical frame of reference
astronomical longitude
astronomical number
astronomical observatory
astronomical refraction
astronomical telescope
astronomical twilight
astronomical unit
astronomical year
asymmetric carbon atom
asymmetric time
asymmetric transmission
asymmetry potential
at a bargain
at a blow
at a clip
at a declining rate
at a disadvantage
at a discount
at a distance
at a first approximation
at a funeral pace
at a glance
at a good clip
at a great rate
at a halt
at a high price
at a later time
at a loose end
at a loss
at a low ebb
at a low price
at a nonplus
at a premium
at a price
at a profit
at a reduction
at a sacrifice
at a slant
at a snail's pace
at a stand
at a standstill
at a stretch
at a stroke
at a subsequent time
at a tangent
at a turtle's pace
at a venture
at a word
at about
at all
at all accounts
at all costs
at all events
at all hazards
at all points
at all risks
at all times
at an advanced age
at an angle
at an end
at an impasse
at anchor
at another time
at any cost
at any price
at any rate
at any sacrifice
at any straw
at any time
at arm's length
at attention
at auction
at bar
at bat
at bay
at bayonet point
at best
at bottom
at budget prices
at choice
at close hand
at close quarters
at cockcrow
at concert pitch
at cost
at cost price
at cross-purposes
at cross-purposes with
at daggers
at daggers drawn
at dawn
at dawn of day
at death's door
at demand
at discretion
at each other's throat
at ease
at ease and lighthearted
at enmity
at established periods
at every turn
at fault
at feud
at fever pitch
at first
at first blush
at first hand
at first light
at first sight
at first view
at fixed periods
at flank speed
at flood
at full
at full blast
at full drive
at full length
at full pelt
at full speed
at full throttle
at gaze
at grade
at great cost
at great expense
at grips
at gunpoint
at hack
at half cock
at hand
at haphazard
at haven
at hazard
at heart
at heavy cost
at heel
at home
at home in
at home with
at infrequent intervals
at intervals
at irregular intervals
at issue
at it
at just the wrong time
at large
at last
at law
at least
at leisure
at length
at liberty
at loggerheads
at long last
at loose ends
at mid-day
at most
at next hand
at night
at no
at no great distance
at no hand
at no time
at noon
at odd times
at odds
at odds with
at once
at once and on the spot
at one
at one and the same time
at one blow
at one fell swoop
at one jump
at one stroke
at one swoop
at one time
at one with
at opposite extremes
at outcry
at outs
at par
at peace
at piggy-bank prices
at pleasure
at present
at prime cost
at public auction
at public outcry
at random
at reduced rates
at regular intervals
at rest
at right angles
at rock bottom
at sea
at second hand
at short notice
at sight
at sixes and sevens
at small cost
at some other time
at square
at stake
at stated times
at straws
at strife
at sunrise
at swords' points
at that
at that instant
at that moment
at that rate
at that time
at the bar
at the base of
at the beck and call of
at the bottom
at the bottom of
at the bottom of the heap
at the bottom of the scale
at the bound
at the breast
at the bursting point
at the conclusion
at the core
at the crack of dawn
at the dip
at the double
at the drop of a handkerchief
at the drop of a hat
at the eleventh hour
at the end
at the end of your rope
at the end of your tether
at the expense of
at the feet of
at the first blush
at the first go-off
at the first opportunity
at the foot of
at the gun
at the hand
at the hand of
at the hands of
at the head
at the heart of
at the height
at the helm
at the instance of
at the last
at the last extremity
at the last gasp
at the last minute
at the latest
at the least
at the limit
at the mercy of
at the most
at the nadir
at the option of
at the outside
at the peak
at the periphery
at the pinnacle
at the pitch of your breath
at the point of
at the point of a gun
at the point of death
at the point of the bayonet
at the point of the gun
at the point of the sword
at the portals of death
at the present time
at the reins
at the same instant
at the same moment that
at the same time
at the same time as
at the same time that
at the start
at the summit
at the threshold
at the threshold of
at the time of
at the time that
at the top
at the top of the ladder
at the top of the tree
at the top of your bent
at the top of your lungs
at the top of your voice
at the wheel
at the word of command
at the zenith
at this instant
at this juncture
at this moment
at this point
at this time
at this time of day
at times
at twelve-o’clock sharp
at variance
at variance with
at variance with the facts
at various times
at war
at war ’twixt will and will not
at war with
at what price
at what time
at whatever time
at which
at which instant
at which moment
at which time
at wholesale
at will
at work
at worst
at wt
at your beck and call
at your best
at your bidding
at your call
at your command
at your convenience
at your discretion
at your disposal
at your door
at your ease
at your elbow
at your feet
at your fingertips
at your heels
at your last gasp
at your leisure
at your mercy
at your nod
at your orders
at your own discretion
at your own sweet time
at your own sweet will
at your pleasure
at your service
at your side
at your will
at your will and pleasure
at your wit's end
at your wits' end
at-
at-home
at-homeish
at-homeishness
at-homeness
at-large
atamasco lily
ate-
atef crown
atef-crown
atelets sauce
ater-
ater-
athanasian creed
athel tree
athlete's foot
athlete's heart
athletic coach
athletic equipment
athletic field
athletic heart
athletic socks
athletic support
athletic supporter
athwart the hawse
atka mackerel
atlantic time
atlanto-
atlas folio
atlee gall
atlo-
atro-dontoid
atloido-occipital
atmo-
atmospheric attenuation
atmospheric boundary layer
atmospheric braking
atmospheric condition
atmospheric electricity
atmospheric engine
atmospheric layer
atmospheric perspective
atmospheric pressure
atmospheric tides
atmospheric visibility
atom blast
atom bomb
atom counter
atom gun
atom model
atom smasher
atom soul
atom war
atom-bomb
atom-chipping
atom-rocket
atom-smashing
atom-tagger
atom-tagging
atom-tracing spectrometer
atomic accelerator
atomic age
atomic arsenal
atomic attack
atomic battery
atomic beam
atomic bomb
atomic cannon
atomic chemistry
atomic clock
atomic cluster
atomic cocktail
atomic constants
atomic decay
atomic disintegration
atomic energy
atomic energy plant
atomic engine
atomic explosion
atomic furnace
atomic gun
atomic heat
atomic hydrogen torch
atomic hydrogen welding
atomic hypothesis
atomic mass
atomic mass unit
atomic model
atomic nucleus
atomic number
atomic particle
atomic particles
atomic pile
atomic power
atomic power plant
atomic project
atomic radiation
atomic ray
atomic reaction
atomic research
atomic science
atomic scientist
atomic structure
atomic submarine
atomic theory
atomic units
atomic units and constants
atomic volume
atomic war
atomic warfare
atomic warhead
atomic weapons
atomic weight
atomic-powered submarine
atonal
atrial fibrillation
atrioventricular block
atrioventricular bundle
atrioventricular node
atro-
atrochiasia
atrochiasia pain
atrociousness
atrociousness story
atrophic arthritis
atrophic inflammation
attacca subito
attach a condition
attach a proviso
attach importance to
attach little importance to
attach some weight to
attach to
attach too much importance to
attach yourself to
attache case
attached to
attachment disk
attachment plug
attack bomber
attack in force
attack like lightning
attack of illness
attack of nerves
attack plane
attack squadron
attack time
attack transport
attain fulfillment
attain majority
attain mastery of
attain to
attain your objective
attar of roses
attempt the impossible
attempt to
attend Communion
attend Mass
attend classes
attend closely to
attend on
attend rites
attend school
attend to
attend to business
attend to orders
attend to your work
attend upon
attendance allowance
attendance centre
attendance officer
attendant godling
attendant spirit
attended by
attended with danger
attending physician
attention signal
attention span
attention to detail
attention to fact
attention-getting
attenuation charge
au revoir
au vert pre
au vin blanc
au vol
aubergine purple
auburn-haired
auction agent
auction block
auction bridge
auction euchre
auction hearts
auction off
auction pinochle
auction pitch
auction pool
auction room
auction sale
aucuba green
aucuba mosaic
audibility meter
audience chamber
audience court
audience room
audience success
audience-proof
audio amplifier
audio channel
audio detector
audio devices
audio distortion
audio frequency
audio monitor
audio signal
audio sound system
audio transmitter
audio truck
audio-
audio-IF oscillator
audio-frequency
audio-frequency amplification
audio-frequency amplifier
audio-frequency circuit
audio-frequency detector
audio-frequency oscillator
audio-frequency tube
audio-visual
audio-visually
augmented interval
augmented sixth
augmented triad
augur well
auld lang syne
auld-farran
auld-farrand
auld-farrant
auld-warld
auln-
aunc-
auntie man
aur-
aural examination
aural sense
aurea mediocritas
aurene glass
aureolin yellow
auri-iodide
auricula purple
auricular appendage
auricular confession
auricular fibrillation
auriculo-infraorbital
auriculo-occipital
auro-
aurora australis
aurora borealis
aurora glory
aurora orange
aurora particle
aurora particle counter
aurora particles
aurora polaris
aurora sauce
aurora trout
aurora yellow
auspicium melioris aevi
aussage test
austenitic stainless steel
austerity program
aust-
australia day
australian ballot
australian terrier
aut Caesar
aut nihil
aut-
auteur theory
authentic cadence
authentic mode
author catalog
author catalogue
author mark
author number
author's alteration
author's copy
author's proof
author-created
author-entry
author-publisher
author-ridden
authoritative in
authorities, the
authority on money and banking
authorized absence
authorized capital
authorized capital stock
authorized version
autistic distortion
autistic thinking
auto antenna
auto carrier
auto court
auto laundry
auto lift
auto lorry
auto mechanic
auto mechanics
auto part
auto parts
auto pilot
auto polish
auto radio
auto sacramental
auto show
auto-
auto-alarm
auto-audible
auto-da-f
auto-da-fe
auto-dafe
auto-infection
auto-inoculability
auto-inoculable
auto-inoculation
auto-objective
auto-observation
auto-omnibus
auto-ophthalmoscope
auto-ophthalmoscopy
auto-oxidation
auto-oxidize
auto-rickshaw
auto-rifle
autoconvection gradient
autodyne reception
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automated system
automated factory
automated satellite
automatic analyzer
automatic analyzers
automatic block signal
automatic boost control
automatic choke
automatic control
automatic control engineering
automatic control system
automatic data processing
automatic detector
automatic detectors
automatic device
automatic devices
automatic dishwasher
automatic drill
automatic drive
automatic electronic navigation
automatic electronics
automatic engineering
automatic exchange
automatic factory
automatic feed mechanism
automatic frequency control
automatic gain control
automatic guidance
automatic gun
automatic gun director
automatic heater
automatic indicating scale
automatic indicator
automatic indicators
automatic iron
automatic laundry
automatic machine
automatic piano
automatic pilot
automatic pinspotter
automatic pistol
automatic plotter
automatic premium loan
automatic printer
automatic range finder
automatic reaction
automatic response
automatic rifle
automatic screw machine
automatic sight
automatic sprinkler
automatic stability
automatic stop
automatic switch
automatic technician
automatic technology
automatic telegraph
automatic telephone
automatic telephone exchange
automatic telephone system
automatic tracking
automatic transmission
automatic trip
automatic typesetting
automatic washer
automatic washer-dryer
automatic writing
automatic-weapons fire
automation technology
automobile board
automobile insurance
automobile liability insurance
automobile race
automobile racing
automobile registration tax
automobile showroom
automobile sled
automorphic-granular
autonomic epilepsy
autonomic nervous system
autonomic reaction
autos sacramentales
autoserum therapy
autotransformer starter
autotrophic organism
autotuberculin test
autourine test
autoxidation-reduction
autre chose
autre vie
autres temps autres murs
autumn bellflower
autumn blond
autumn catchfly
autumn crocus
autumn green
autumn leaf
autumn mange
autumn oak
autumn of your days
autumn snowflake
autumn squill
autumn violet
autumn willow
autumn-brown
autumn-spring
autumnal equinox
autumnal point
aux abois
aux aguets
aux armes
aux fines herbes
auxiliary boat
auxiliary equation
auxiliary language
auxiliary note
auxiliary power unit
auxiliary rafter
auxiliary tone
auxiliary verb
av-
avail nothing
avail yourself of
available funds
available gain
available light
available means
available resources
avalanche conduction
avalanche lily
avalanche wind
avant-
avant-courier
avant-garde
avant-garde jazz
avant-gardism
avant-gardist
avant-propos
avarice on stilts and masked
ave maria
avec plaisir
avellan cross
avenging spirit
aver-
average adjuster
average book
average clause
average deviation
average down
average life
average man
average out
average person
average revenue
average run
average stater
average up
average-life period
averse to
aversion therapy
avert the eyes
avian diphtheria
avian leukosis
avian pneumoencephalitis
avian pox
avian pseudoplaque
avian spirochetosis
aviation badge
aviation beacon
aviation beacons
aviation cadet
aviation field
aviation gasoline
aviation instrument
aviation insurance
aviation medicine
aviation radar
aviation radio
aviation technology
aviation wings
aviator glasses
avignon berry
avion-canon
avocado fat
avocado green
avocado oil
avocado pear
avocado weevil
avoid both Scylla and Charybdis
avoid excess
avoid extremes
avoid the limelight
avoid your gaze
avoidance mechanism
avoidance play
avoidance reaction
avoiding reaction
avoirdupois pound
avoirdupois weight
avowed Communist
aw-
awake a doubt
awake a suspicion
awake the dead
awake the echoes
awake to
awake to life immortal
awaken the memory
awaken the mind
awaken the thoughts
awaken to
award wage
award winner
aware of
away back
away from
away from home
away from the point
away off
away with you
away-going
away-going crop
awe-awakening
awe-band
awe-bound
awe-commanding
awe-compelling
awe-filled
awe-inspired
awe-inspiring
awe-inspiringly
awe-stricken
awe-strike
awe-struck
awful silence
awful-eyed
awful-gleaming
awful-looking
awful-voiced
awkward age
awkward person
awkward squad
awl bird
awl-fruited
awl-leaved
awl-shaped
awn grass
awned wheat grass
awning cloth
awning deck
awning window
awnless brome grass
ax eye
ax grinder
ax handle
ax helve
ax maker
ax sheath
ax wedge
ax, the
ax-adz
ax-shaped
axe-breaker
axial flow compressor
axial motion
axial pencil
axial skeleton
axial-flow
axial-flow turbine
axial-flow turbojet
axial-flow unit
axial-type engine
axiological ethics
axiom of choice
axiom of countability
axis cylinder
axis cylinder process
axis deer
axis of abscissas
axis of ordinates
axis of revolution
axis of symmetry
axle adjuster
axle arm
axle assembler
axle bar
axle bearing
axle bender
axle bolt
axle box
axle bush
axle cap
axle case
axle centerer
axle cutter
axle dresser
axle ender
axle filer
axle finisher
axle forger
axle grease
axle grinder
axle guard
axle guide
axle hammer
axle hammerman
axle hardener
axle hook
axle journal
axle lagger
axle lathe
axle load
axle oiler
axle packer
axle pin
axle pinner
axle press
axle rougher
axle saddle
axle seat
axle setter
axle shaft
axle sleeve
axle slotter
axle spindle
axle stool
axle straightener
axle tooth
axle turner
axle wad
axle worker
axle-bending
axle-boring
axle-centering
axle-forging
axle-tooth
axle-tree
axletree arm
axonometric projection
ay-
ay-green
aye-aye
aye-ceaseless
aye-during
aye-dwelling
aye-lasting
aye-living
aye-remaining
aye-renewed
aye-restless
aye-rolling
aye-running
aye-sought
aye-troubled
aye-turning
aye-varied
aye-welcome
ayenbite of inwit
ayer-ayer
ayr stone
ayurvedic medicine
az-
az-
azido group
azido radical
azimuth bar
azimuth circle
azimuth co-ordinate
azimuth compass
azimuth dial
azimuth distance
azimuth error
azimuthal equidistant projection
azimuthal projection
azimuthal quantum number
azine dye
azo blue
azo dye
azo group
azo radical
azo-
azo-orange
azo-orchil
azo-orseriline
azoic dye
azomethine group
azon bomb
azonal soil
azonium base
azonium salt
azoxy group
azure-blazoned
azure-blue
azure-canopied
azure-circled
azure-colored
azure-domed
azure-eyed
azure-footed
azure-inlaid
azure-mantled
azure-penciled
azure-plumed
azure-tinted
azure-vaulted
azure-veined
azurite blue
azygo-
b Physics
b and b
b battery
b complex
b-horizon
b/d Book-keeping
baal kore
baal marriage
baba au rhum
baba-koto
babas au rhum
babassu oil
babbit-metal
babbitt metal
babbitting jig
babcock test
babe in the wood
babe in the woods
babe-faced
babies'-breath
baby act
baby beef
baby bird
baby blue
baby blue-eyes
baby blues
baby bond
baby bonus
baby boom
baby buggy
baby bunting
baby carriage
baby clothes
baby eyes
baby face
baby farm
baby farmer
baby farming
baby fern
baby grand
baby grand piano
baby heathberry
baby jib topsail
baby kisser
baby lace
baby linen
baby orchid
baby pin
baby pink
baby primrose
baby rambler
baby ribbon
baby seal
baby sitter
baby snatcher
baby split
baby spot
baby spotlight
baby step
baby talk
baby tears
baby threader
baby tooth
baby walker
baby's breath
baby's-breath
baby's-slippers
baby-blue-eyes
baby-browed
baby-doll
baby-face
baby-faced
baby-featured
baby-kissing
baby-sat
baby-sit
baby-sitter
baby-sitting
baby-sized
baby-snatching
baby-tears
bacalao bird
baccalaureate sermon
baccalaureate service
bach it
bachelor button
bachelor chest
bachelor girl
bachelor party
bachelor perch
bachelor's button
bachelor's degree
bachelor's gown
bachelor's-button
bachelor's-buttons
bachelor-at-arms
bachelors-at-arms
bacillary dysentery
bacillary white diarrhoea
back action
back air pipe
back airing
back anchor
back and fill
back and forth
back answer
back away
back balance
back band
back bar
back beam
back bench
back bender
back block
back boiler
back bond
back center
back check
back choir
back clearance
back cloth
back comb
back country
back crawl
back current
back debts
back dive
back door
back down
back draft
back eccentric
back electromotive force
back end
back entry
back fat
back file
back fillet
back focus
back formation
back four
back full
back gear
back green
back hair
back head
back home
back judge
back letter
back line
back liner
back lining
back link
back list
back lot
back maker
back marker
back matter
back molding
back number
back o' Bourke
back o' beyond
back of
back of beyond
back off
back one-third
back order
back out
back out of
back overman
back pack
back page
back painting
back passage
back paternoster
back payments
back pitch
back plastering
back play
back pressure
back projection
back rest
back road
back rod
back room
back run
back sail
back saw
back scatter
back scene
back score
back scratcher
back scratching
back seat
back shaft
back shop
back shutter
back-plate
back-pressure arm-lift method
back-pressure valve
back-pulling
back-putty
back-racket
back-raking
back-scraper
back-scratching
back-seat driver
back-set
back-set bed
back-settler
back-sey
back-slang
back-slanging
back-slapping
back-spiker
back-staff
back-starting
back-stepping
back-stitch
back-stope
back-strapped
back-streeter
back-stroke
back-surging
back-sword
back-talk
back-tan
back-titrates
back-titration
back-to-back
back-to-back switching circuit
back-to-front
back-trailer
back-trip
back-up
back-up light
back-ward
back-way
backache brake
backache root
backbreaking work
backdoor trots
backed-off
backer-up
backers-up
backflap hinge
backflow valve
background detail
background music
background projection
background radiation
backhand rent
backing angle
backing bar
backing jointer
backing light
backing metal
backing off
backing out
backing paper
backing store
backing strip
backing striplight
backing up
backing wind
backing-off
backing-off lathe
backpacking tent
backpedaling brake
backseat driver
backspace key
backstairs influence
backstay stools
backup light
backup man
backward and forward
backward blessing
backward change
backward deviation
backward motion
backward step
backwards and forwards
backwater valve
bacon and eggs
bacon beetle
bacon hog
bacon-and-eggs
bacon-lettuce-tomato sandwich
bacteri-
bacteria bed
bacterial blight
bacterial canker
bacterial disease
bacterial plaque
bacterial therapy
bacterial vaccine
bacterial wilt
bacterio-
bacterio-opsonic
bacterio-opsonin
bacteriological warfare
baculo-metry
bad actor
bad behavior
bad blood
bad books
bad boy
bad break
bad breath
bad case
bad cess
bad character
bad check
bad child
bad condition
bad conduct discharge
bad copy
bad debt
bad debts
bad deed
bad dream
bad ear
bad egg
bad example
bad eyesight
bad fairy
bad faith
bad feeling
bad for
bad fortune
bad graces
bad grammar
bad guy
bad habit
bad hand
bad handwriting
bad hat
bad humor
bad influence
bad job
bad language
bad light
bad likeness
bad liquor
bad lot
bad luck
bad man
bad manners
bad money
bad move
bad name
bad news
bad notices
bad odor
bad off
bad people
bad peri
bad person
bad poet
bad poetry
bad policy
bad press
bad quality or effect
bad report
bad reputation
bad repute
bad smell
bad spelling
bad spirit
bad taste
bad temper
bad time
bad times
bad turn
bad will
bad woman
bad writing
bad-headed
bad-hearted
bad-humored
bad-looking
bad-minded
bad-mouth
bad-order freight
bad-smelling
bad-tempered
badge of infamy
badge of office
badger baiting
bag packer
bag picker
bag printer
bag rack
bag repairer
bag riveter
bag sewer
bag sleeve
bag sorter
bag stacker
bag stitcher
bag table
bag twine
bag work
bag worker
bag wrinkle
bag-bearing
bag-bedded
bag-bundling
bag-cheeked
bag-closing
bag-cutting
bag-filling
bag-flower
bag-folding
bag-printing
bag-reef
bag-sewing
bag-shaped
bag-wig
baggage agent
baggage car
baggage cart
baggage check
baggage clerk
baggage inspector
baggage man
baggage porter
baggage rack
baggage room
baggage train
baggage van
baggage wagon
baggage-smasher
bags I
bagworm moths
baib grass
bail bond
bail out
bail up
bail you out
bail-dock
bail-out
bailer shell
bailey bridge
bain-marie
bains-marie
bait and switch
bait bug
bait casting
bait set
bait the hook
baited trap
bake cart
bake kettle
bake sale
bake-meat
bake-off
baked Alaska
baked beans
baked goods
baked meat
baked sheep's head
baked-apple
baked by surprise
baker bird
baker sheet
baker's cheese
baker's dozen
baker's legs
baker-knee
baker-kneed
baker-leg
baker-legged
bakers' yeast
bakery moth
bakery proofer
baking powder
baking soda
bal costume
bal masque
balaclava helmet
balance accounts
balance adjuster
balance arm
balance beam
balanced step
balanced ticket
balanced valve
balancer set
balancing band
balancing coil
balancing condenser
balancing flap
balancing link
balancing ring
balancing set
balancing ways
balanitis gangrenosa
balanophore wax
balas ruby
balata belt duck
balata gum
bald as a coot
bald as an egg
bald coot
bald cypress
bald eagle
bald fact
bald-faced
bald-faced hornet
bald-headed
bald-headedness
bald-pated
bald-patedness
balder-brae
balder-herb
bale band
bale breaker
bale buckle
bale conveyor
bale feeder
bale goods
bale hook
bale jumper
bale marker
bale opener
bale out
bale stick
bale stitcher
bale strap
bale tie
bale tier
bale-fire
baleen whale
baling machine
balk at
balk day
balk line
balk-line game
balky horse
ball and chain
ball and ring
ball bearing
ball boy
ball breaker
ball cactus
ball cartridge
ball caster
ball clay
ball club
ball cock
ball fern
ball foot
ball game
ball gentle
ball grinder
ball gudgeon
ball handle
ball indicator
ball ironstone
ball joint
ball lever
ball lightning
ball mill
ball moss
ball mustard
ball of fire
ball of wax
ball park
ball peen
ball peen hammer
ball pen
ball point pen
ball python
ball reamer
ball rest
ball rose
ball sage
ball screw
ball seater
ball smut
ballast inspector
ballast line
ballast loader
ballast master
ballast plant
ballast port
ballast pump
ballast regulator
ballast spreader
ballast stone
ballast tank
ballast tipper
ballast track
ballast trimmer
ballast tube
ballast unloader
ballast-cleaning
ballast-crushing
ballast-loading
balled up
balled-up
ballet blanc
ballet d'action
ballet dancer
ballet dancing
ballet divertissement
ballet girl
ballet master
ballet mistress
ballet music
ballet shoes
ballet skirt
ballet slipper
ballet slippers
ballet suite
ballets blancs
balli buntl
ballibuntl hat
balling furnace
balling gun
balling head
balling iron
ballistic camera
ballistic capsule
ballistic galvanometer
ballistic missile
ballistic pendulum
ballistic trajectory
ballistic wind
balloon d'essai
balloon-sonde
ballonet ceiling
ballons d'essai
balloon ball
balloon barrage
balloon bed
balloon chuck
balloon clock
balloon cloth
balloon fabric
balloon feather
balloon foresail
balloon frame
balloon framing
balloon in
balloon jib
balloon sail
balloon seat
balloon sickness
balloon sleeve
balloon tire
balloon trainshed
balloon tyre
balloon vine
balloon-berries
balloon-berry
ballooning in
ballooning spider
ballot box
ballot paper
ballot-box stuffer
ballot-box stuffing
balloting place
ballpoint pen
ballroom dance
ballroom dancer
ballroom dancing
ballroom music
balls-up
bally gum
ballyhoo man
balm apple
balm cottonwood
balm cricket
balm dew
balm fir
balm leaf
balm mint
balm of Gilead
balm of gilead
balm oil
balm pine
balm shrub
balm tea
balm wine
balm-apple
balm-breathing
balm-cricket
balm-leaved
balm-shed
balmy sleep
balsa raft
balsam apple
balsam bog
balsam capivi
balsam copaiba
balsam cucumber
balsam fig
balsam fir
balsam flowers
balsam groundsel
balsam herb
balsam hickory
balsam of Mecca
balsam of Peru
balsam of fir
balsam of peru
balsam of tolu
balsam pear
balsam poplar
balsam shrub
balsam spruce
balsam spurge
balsam tree
balsam vine
balsam-tree family
balto-slavic
baluster column
baluster measure
baluster shaft
baluster stem
bambara butter
bamboo brier
bamboo curtain
bamboo fern
bamboo fish
bamboo grass
bamboo money
bamboo oyster
bamboo palm
bamboo partridge
bamboo rat
bamboo reed
bamboo screen
bamboo shade
bamboo shoot
bamboo shoots
bamboo sugar
bamboo turning
bamboo vine
bamboo ware
bambui butter
bambuk butter
banana bean
banana belt
banana bird
banana boa
banana eater
banana family
banana fish
banana flour
banana fly
banana freckle
banana liquid
banana moth
banana oil
banana quit
banana republic
banana root borer
banana seat
banana shrub
banana solution
banana split
banana water lily
banana weevil
banana wilt
band bracelet
band brake
band chain
band concert
band conveyer
band course
band creaser
band cutter
band driver
band filter
band iron
band leader
band major
band maker
band mill
band plant
band pulley
band resaw
band saw
band screen
band shell
band spectrum
band steel
band theory of solids
band together
band wagon
band wheel
band-aid
band-gala
band-pass filter
band-saw file
band-sawing
band-sawyer
band-shaped
band-tailed
band-tailed pigeon
bandage compress
bandar-log
banded anteater
banded purple
banded rattlesnake
banded rudderfish
banded together
bandied about
bandle linen
bandoleer fruit
bandtailed pigeon
bandy about
bandy leg
bandy legsbow-legged
bandy with
bandy words
bandy-bandy
bandy-legged
baneful dire
bang away at
bang beggar
bang into
bang off
bang on
bang up
bang's disease
bang-bang
bang-tail
bang-up
bangalore torpedo
banged-up
bangle ear
bangtail muster
banister back
banister-back
banjo clock
banjo eyes
banjo frame
banjo signal
banjo-picker
banjo-uke
banjo-ukulele
banjo-zither
bank acceptance
bank account
bank accountant
bank agent
bank annuities
bank annuity
bank assets
bank assistant
bank auditor
bank balance
bank barn
bank beaver
bank bill
bank bird
bank book
bank boss
bank brakesman
bank call
bank card
bank cashier
bank charter
bank check
bank claim
bank clearings
bank clerk
bank cod
bank court
bank credit
bank cress
bank deposit
bank deposit insurance
bank discount
bank draft
bank engine
bank examiner
bank fish
bank fisher
bank fisheries
bank footman
bank foreman
bank gravel
bank guaranty
bank guard
bank head
bank heading
bank holiday
bank indicator
bank inspector
bank jug
bank laborer
bank ledger
bank letter
bank loan
bank manager
bank martin
bank messenger
bank molder
bank money
bank night
bank note
bank oddman
bank of issue
bank officer
bank on
bank overman
bank paper
bank post bill
bank president
bank ranger
bank rate
bank receipt
banking executive
banking file
banking indicator
banking pin
banking principle
banking screw
banking stud
banking wax
banking-house
banko ware
bankrupt in
bankrupt law
banksia rose
bankul nut
banner bearer
banner cloth
banner cloud
banner cry
banner head
banner headline
banner line
banner name
banner painter
banner plant
banner pole
banner pompano
banner screen
banner staff
banner stone
banner-fashioned
banner-shaped
bannock fluke
bannock stick
banns of matrimony
banquet of the soul
banquette slope
banquette tread
banyan day
banyan tree
banzai attack
banzai charge
baptism for the dead
baptism in the spirit
baptism of fire
baptismal dress
baptismal font
baptismal gown
baptismal name
baptismal regeneration
baptismal robe
bar beat
bar bell
bar billiards
bar bit
bar cent
bar chart
bar chuck
bar code
bar discharger
bar fee
bar fly
bar foot
bar gemel
bar girl
bar gown
bar graph
bar iron
bar joist
bar keel
bar line
bar magnet
bar mitzvah
bar mizvah
bar money
bar movement
bar opal
bar out
bar parlor
bar pin
bar plate
bar point
bar rigging
bar roller
bar screen
bar share
bar shoe
bar shot
bar sight
bar sinister
bar soap
bar spade
bar stall
bar stool
bar tack
bar the gate
bar tin
bar tracery
bar winding
bar-
bar-and-grill
bar-goose
bar-headed goose
bar-share plow
bar-stock lathe
bar-tailed
bar-wound
bara-picklet
barb bolt
barb the dart
barba amarilla
barba amarillas
barbaric splendor
barbary ape
barbecue sauce
barbecued beef
barbecued spareribs
barbed cat
barbed tributary
barbed wire
barbed-wire entanglement
barbed-wire grass
barber bug
barber chair
barber college
barber pole
barber's basin
barber's chair
barber's itch
barber's pole
barber's shop
barber-bug fever
barber-surgeon
barberry family
barberry fig
barberry rust
barbershop chords
barbershop harmony
barbette carriage
barbette gun
barbital sodium
barbiturate addiction
barbiturate pill
barbituric acid
bare as the back of your hand
bare cupboard
bare fact
bare fallow
bare flesh
bare minimum
bare necessities
bare of
bare pole
bare possibility
bare skin
bare subsistence
bare sufficiency
bare suggestion
bare your fangs
bare-ankled
bare-armed
bare-ass
bare-assed
bare-backed
bare-bitten
bare-boned
bare-bosomed
bare-branched
bare-breasted
bare-chested
bare-clawed
bare-faced
bare-fingered
bare-gnawn
bare-handed
bare-headed
bare-kneed
bare-legged
bare-necked
bare-picked
bare-ribbed
bare-skinned
bare-skulled
bare-throated
bare-toed
bare-walled
bare-worn
bareback rider
bareboat charter
bareface tenon
barefaced lie
barefaced tenon
barefoot tea
barely audible
barely have a chance
barely see
barely sufficient
barely touching
bargain and sale
bargain away
bargain basement
bargain counter
bargain day
bargain driver
bargain for
bargain hunter
bargain on
bargain penny
bargain price
bargain prices
bargain sale
bargain table
bargain work
bargain-basement
bargain-counter
bargain-hunting
bargained for
bargaining session
bargaining unit
barge boom
barge canal
barge couple
barge course
barge in
barge into
barge rig
barge spike
barge stone
barge-board
barge-couple
barge-course
barge-laden
barge-rigged
barge-stone
baritone clef
barium bromate
barium carbonate
barium chloride
barium chromate
barium chrome
barium dioxide
barium enema
barium hydrate
barium hydroxide
barium meal
barium monoxide
barium nitrate
barium oxide
barium peroxide
barium protoxide
barium stearate
barium sulfate
barium sulfide
barium sulphate
barium sulphide
barium thiosulfate
barium yellow
bark at
bark at the moon
bark beetle
bark blazer
bark canker
bark chopper
bark cloth
bark conveyer
bark crusher
bark disease
bark dryer
bark extract
bark feeder
bark gouge
bark grafting
bark grinder
bark house
bark liquor
bark louse
bark maple
bark mark
bark mill
bark parenchyma
bark picker
bark pit
bark scaler
bark shredder
bark spud
bark spudder
bark stripper
bark tree
bark up the wrong tree
barn boards
barn dance
barn door
barn door skate
barn fowl
barn gallon
barn grass
barn gun
barn lantern
barn owl
barn raising
barn sash
barn swallow
barn-brack
barn-door
barn-door fowl
barn-door hanger
barn-door roller
barn-door skate
barn-door stay
barn-raising
barnacle goose
barnacle grass
barnacle scale
barnacle-back
barnacle-eater
barney-clapper
barns-breaking
barnyard fowl
barnyard golf
barnyard grass
barnyard millet
baro-
barograph camera
barometer gauge
barometer paper
barometric error
barometric gradient
barometric pressure
barometric switch
barometric wind rose
baron bailie
baron court
baron et femme
baron of beef
baroque formalism
baroque formalist
baroque organ
barrel shackle
barrel stave
barrel tile
barrel tree
barrel vault
barrel-back chair
barrel-bellied
barrel-boring
barrel-branding
barrel-chested
barrel-driving
barrel-heading
barrel-packing
barrel-roll
barrel-shaped
barrel-vaulted
barren brome grass
barren land
barrer-off
barrette file
barrier beach
barrier berg
barrier cream
barrier gate
barrier ice
barrier of secrecy
barrier pillar
barrier reef
barrier tactics
barrier treaty
barring out
barrio-dwellers
barrister-at-law
barrow boy
barrow tram
barrow truck
barrow-boy
barrow-man
barrow-men
barry-bendy
barry-nebuly
barry-pily
barry-wavy
bars gemels
barter economy
barter unit
barycentric coordinate system
baryon number
base-mettled
base-minded
base-mindedly
base-mindedness
base-souled
base-spirited
base-spiritedness
base-witted
baseball bat
baseball cap
baseball field
baseball glove
baseball mitt
baseball rounders
baseball season
based on
basedow's disease
basement complex
basement house
basement membrane
bases on balls
bash up
bashi-bazouk
bashi-bazoukery
basi-
basic English
basic airman
basic anhydride
basic conductor physics
basic dichromate
basic dress
basic dye
basic education
basic english
basic facts
basic fuchsin
basic fuchsite
basic iron
basic lead carbonate
basic load
basic magenta
basic plumage
basic process
basic proposition
basic rate
basic salary
basic slag
basic substance weight
basic trainer
basic training
basic wage
basic weight
basic-lined
basil balm
basil mint
basil penny royal
basil thyme
basilar membrane
basilic vein
basin range
basing point
basing tariff
basis bundle
basis for belief
basis rate
basis weight
bask in
bask in the sun
bask in the sunshine
basket ash
basket beagle
basket bearer
basket boat
basket button
basket capital
basket carriage
basket case
basket cells
basket chair
basket clause
basket clerk
basket cloth
basket couching
basket elm
basket fern
basket fish
basket flower
basket grass
basket hare
basket hilt
basket hoop
basket maker
basket mast
basket oak
basket osier
basket palm
basket plant
basket salt
basket star
basket stitch
basket tree
basket weave
basket willow
basket withe
basket-ball
basket-bearing
basket-handle arch
basket-hilted
basket-of-gold
basket-star
basketball court
basketball season
basking shark
bass broom
bass bug
bass clef
bass deafness
bass drum
bass fiber
bass fiddle
bass flute
bass fly
bass guitar
bass hogfish
bass horn
bass killy
bass oboe
bass passage
bass player
bass reflex
bass response
bass saxophone
bass staff
bass sunfish
bass viol
bass violinist
bass-bar
bass-horn
bass-relief
bass-viol
bass-wood
basse danse
bassee-taille
basses danses
basset griffon
basset horn
basset hound
basset oboe
basset table
basset-horn
bassi cantanti
bassi profundi
bassiriervi
basso buffo
basso cantante
basso continuo
basso da camera
basso ostinato
basso profundo
basso rilievo
basso-relievo
basso-relieves
basso-rilievo
bassra locust
bast cell
bast fiber
bast palm
bast parenchyma
bast ray
bast tree
bast vessel
bastard acacia
bastard agrimony
bastard alkanet
bastard aloe
bastard amber
bastard apple
bastard ash
bastard ashlar
bastard asphodel
bastard baldmoney
bastard balm
bastard bar
bastard blue gum
bastard box
bastard bryony
bastard bullet tree
bastard canna
bastard cedar
bastard cherry
bastard chestnut
bastard chickweed
bastard child
bastard chinaroot
bastard cinnamon
bastard clover
bastard cork tree
bastard cress
bastard culverin
bastard cusk
bastard daisy
bastard dittany
bastard dogwood
bastard dory
bastard eigne
bastard elder
bastard elm
bastard fallow
bastard feverfew
bastard fig
bastard file
bastard gemsbok
bastard gentian
bastard gidgee
bastard goosefoot
bastard grain
bastard granite
bastard gromwell
bastard gunter
bastard halibut
bastard hartebeest
bastard hawkweed
bastard hellbore
bastard hemp
bastard horehound
bastard hyssop
bastard indigo
bastard ipecac
bastard ironwood
bastard jarrah
bastard jasmine
bastard jute
bastard lignum vitae
bastard locust
bastard locust tree
bastard lupine
bastard mahogany
bastard manchineel
bastard margaret
bastard marjoram
bastard measles
bastard mouse-ear
bastard myall
bastard nettle
bastard nightshade
bastard olive
bastard parsley
bastard pellitory
bastard pennyroyal
bastard pimpernel
bastard pine
bastard plantain
bastard plover
bastard pointing
bastard quartz
bastard quince
bastard rhubarb
bastard rocket
bastard rosewood
bastard saffron
bastard sago palm
bastard sandalwood
bastard schooner
bastard sea grape
bastard senna
bastard sensitive plant
bastard service tree
bastard snapper
bastard speedwell
bastard spikenard
bastard spruce
bastard strangles
bastard sugar
bastard sycamore
bastard tamarind
bastard teak
bastard thread
bastard title
bastard toadflax
bastard tree
bastard trefoil
bastard trout
bastard trumpeter
bastard tuck pointing
bastard turtle
bastard type
bastard vervain
bastard vetchling
bastard weakfish
bastard windflower
bastard wing
bastard wormwood
bastard yellowlegs
bastard yellowwood
bastard-cut
bastard-saw
bastard-sawed
bastard-sawing
bastard-sawn
bastel house
bastel-house
bastille day
bastille house
bastle house
bat about
bat around
bat bolt
bat bomb
bat boy
bat dance
bat ear
bat in
bat mitzvah
bat money
bat of an eye
bat out
bat out of hell
bat printing
bat ray
bat stingray
bat the breeze
bat the eyes
bat the eyes at
bat tick
bat tree
bat-eared
bat-fowl
bat-minded
bat-mindedness
bat-mule
batch loaf
batch processing
batch together
batcher plant
bateau bridge
bateau neck
bateau neckline
bated breath
bateleur eagle
batement light
bath asparagus
bath brick
bath brush
bath bun
bath cabinet
bath chair
bath cube
bath mat
bath mitzvah
bath salts
bath slipper
bath soap
bath sponge
bath towel
bath-loving
bathe with light
bathed in sweat
bathed in tears
bathed with light
bathing beach
bathing beauty
bathing belle
bathing cap
bathing costume
bathing girl
bathing gown
bathing hut
bathing machine
bathing place
bathing sandal
bathing shoe
bathing suit
bathing trunks
bathing-machine
bathroom tissue
bathtub gin
bathy-
bathyal zone
batiator root
batracho-
bats in one's belfry
bats in the belfry
bats-in-the-belfry
batswing burner
batswing coral
battalia pie
batten door
batten down
batten down the hatches
batten ends
batten on
batten plate
batten pocket
batten upon
batter board
batter brace
batter bread
batter pile
batter post
batter pudding
batter rule
batter stick
batter-out
battered baby
battered child syndrome
battering ram
battering train
battering-ram
battery acid
battery cable
battery case
battery cell
battery charger
battery chart
battery eliminator
battery jar
battery lamp
battery maker
battery mud
battery radio
battery supply voltage
battery tester
battery wagon
battery water
battery-charging
battery-powered
battery-testing
batting average
batting block
batting eye
batting hammer
batting order
battle array
battle brand
battle call
battle clasp
battle club
battle cruiser
battle cry
battle din
battle fatigue
battle flag
battle fleet
battle front
battle gaff
battle game
battle group
battle horn
battle hymn
battle it out
battle jacket
battle lantern
battle line
battle piece
battle place
battle plane
battle police
battle position
battle quoit
battle range
battle royal
battle shield
battle shout
battle sight
battle site
battle smoke
battle song
battle star
battle station
battle twig
battle wagon
battle word
battle-ax
battle-axe
battle-fallen
battle-scarred
battle-slain
battle-spent
battle-writhen
battled embattled
battledore and shuttlecock
battleship gray
batule board
batwing burner
batwing chair
batwing sleeve
baulk line
baum marten
bauple nut
baupon-faced
bawdy house
bawl out
bawling-out
bawsay fern
bay antler
bay at the moon
bay bar
bay bean
bay bird
bay camphor
bay cat
bay cedar
bay coot
bay floe
bay goose
bay grass
bay holly
bay hops
bay ice
bay lambs
bay laurel
bay lavender
bay leaf
bay lynx
bay mackerel
bay mahogany
bay mare
bay myrtle
bay oak
bay oil
bay plum
bay point
bay poplar
bay rum
bay rum tree
bay salt
be a dark horse
be a deal
be a deputy
be a dupe
be a fast study
be a father to
be a feature of
be a flop
be a gas
be a gasbag
be a gasser
be a go
be a good investment
be a good sport
be a good trencherman
be a graphic artist
be a hit
be a law to
be a law unto yourself
be a logical impossibility
be a man
be a man of heart
be a man of sentiment
be a member
be a mother to
be a must for
be a paradox
be a parasite
be a party to
be a patsy
be a pawn of
be a plaything of
be a prey to anxiety
be a prey to your feelings
be a printmaker
be a quality of
be a reproach to
be a sideliner
be a sign of
be a slow study
be a spectator
be a stretch of the imagination
be a success
be a sucker
be a thing of the past
be a timeserver
be a trait of
be a waste of time
be a windbag
be a yes man
be able
be about
be about to
be about to be borning
be above
be absent
be absentminded
be absorbed in
be abstracted
be accepted
be accepted for
be accountable for
be accurate
be acquainted with
be active
be added
be admitted
be admitted to the bar
be advised by
be affected
be affected with
be afraid
be after
be against
be agin
be agitated
be agreeable
be agreeable to
be ahead
be ahead of time
be airborne
be alert
be alive
be alive with
be all ears
be all eyes
be all heart
be all one to
be all over
be all over with
be all thumbs
be all up with
be allowed
be along
be amazed
be ambitious
be an
be an accessory to
be an easy mark
be an icicle
be an imperative for
be an impossibility
be an incubus to
be an indication of
be angry
be animate
be annihilated
be answerable for
be antipathetic
be apodictic
be apparent
be appreciative of
be apprised
be apprised of
be aromatic
be around
be arrogant
be as expected
be as good as
be as good as your word
be as one looked for
be as one thought
be ashamed
be asleep at the switch
be asleep with the Lord
be astonished
be astounded
be at
be at a standstill
be at cross-purposes
be at ease
be at fault
be at home
be at home in
be at home to
be at one with
be at peace among yourselves
be at sea
be at the bottom of
be at the conn
be at the controls
be at the head of
be at the helm
be at the mercy of
be at the rudder
be at the tiller
be at the wheel
be at variance
be at work on
be at your service
be at your wit's end
be attractive
be aware of
be axiomatic
be based on
be before
be beforehand
be begotten
be behind
be behindhand
be believed
be benevolent
be benighted
be bereaved of
be bereft of
be beside yourself
be betimes
be beyond one
be big
be blessed-eventing
be blind
be blind to
be blinded by your own glory
be blooded
be bombastic
be born
be born for
be born out of wedlock
be born so
be born to trouble
be born under an evil star
be born unto trouble
be bound
be bound to pay
be bounded by
be brewing
be brief
be bright
be brilliant
be broad-minded
be brought down
be built that way
be buoyed up
be burnt into your memory
be busy
be called
be capricious
be careful
be caught napping
be caught out
be caught short
be caught with your pants down
be cautious
be certain
be champing at the bit
be changed
be characteristic
be cheap
be cheek by jowl with
be cheerful
be chopfallen
be clear
be clobbered
be close friends with
be closeted with
be coerced
be coextensive with
be cognizant of
be cold
be cold as ice
be comfortable
be comforted
be commensurable
be comparable
be compelled
be comprised in
be concave
be conceived
be concerned
be concise
be conditional on
be confident
be confined
be conscious of
be conservative
be considerate
be consistent
be conspicuous
be constituted by
be construed as
be consumed
be consumed with desire
be contained in
be contemptuous of
be content
be content with
be contiguous
be contingent
be contingent on
be continuous
be contrary to
be conversant with
be converted
be converted into
be convicted
be convinced
be convincing
be convulsed with laughter
be correct
be courteous
be covetous of
be credulous
be crestfallen
be crowned with success
be cruel to be kind
be crushed
be curious
be damaged
be damned
be damp
be dark
be dated
be dead
be dead and gone
be deaf
be death on
be deceived
be defeated
be demonstrable
be dependent on
be deserving
be desirous of
be despair of
be desperately in love
be despondent
be destined
be destined for one
be destined for you
be destroyed
to be determined
to be diagnostic of
to be difficult
to be diffident
to be dilatory
to be disagreeable
to be disappointed
to be disappointing
to be discovered
to be discriminating
to be disenchanted
to be disgraced
to be dishonest
to be disillusioned
to be disorderly
to be disposed to
to be disrespectful
to be dissonant
to be distant
to be distasteful
to be distinct
to be distinguished
to be doing
to be done for
to be doomed
to be doubly punished
to be doubtful
to be down on
to be downbeat
to be dressed in
to be driven
to be driven into a corner
to be drunk
to be dry
to be dubious
to be due
to be due to
to be dumb with grief
to be dying for
to be dying to
to be eager
to be eager about
to be earless
to be earlier
to be early
to be easy
to be easy in your mind about
be easy of belief
be easy of persuasion
be easy on
be easy to recall
be easy with
be eaten away
be eating someone
be effective
be effortless
be elastic
be eloquent
be embarrassed
be employed
be employed in
be energetic
be enfeoffed of
be enfranchised
be engaged
be engaged in
be engrossed in
be enthusiastic
be entitled to
be envious of
be equal to
be eradicated
be erect
be ever the same
be evident
be excitable
be excited
be expectant
be expected
be expecting
be expedient
be experienced
be expert
be expert at
be expert in
be exposed
be exposed to
be extant
be extirpated
be eyeball to eyeball
be fair
be faithful to
be false
be famous
be far from your thoughts
be fashionable
be fastidious
be fat
be fated
be featured
be fed up
be feeling no pain
be felled
be financially committed
be firm
be fit to be compared
be fitted
be fitting
be fond of
be foolish
be for it
be forced
be forgetful
be forgotten
be formed
be fortunate
be found
be found guilty
be found wanting
be fragrant
be frank
be free
be frequent
be fresh in your memory
be friends
be frightened
be fruitful
be full of beans
be full of emotion
be full of ginger
be full of pep
be full of piss and vinegar
be full of zip
be gainful
be game
be garrulous
be gathered to your fathers
be generous
be generous with
be getting along
be given a jar
be given a jolt
be given a start
be given a turn
be glimpsed
be gone
be good
be good enough
be good for
be good to
be grateful
be gravid
be great with child
be green
be green in your memory
be guided by
be guilty
be had
be half-blind
be hand in glove with
be handy
be hanged
be hard on
be hard put
be hard to believe
be hard to please
be hard up
be harmonious
be heading for a fall
be healthy
be heard
be heavy
be heavy on one
be heavy on you
be heavy upon
be hell on
be hep to
be here again
be high
be holier than the Pope
be honest
be hopeful
be hopeless
be hostile
be hostile to
be hot
be humiliated
be hurting for
be hypocritical
be idle
be ignorant
be ill-humored
be illegitimate
be imbued with the spirit of
be imminent
be impatient
be imperfect
be imperturbable
be implicated in
be important
be impossible
be impotent
be impressed with yourself
be imprisoned
be improbable
be in
be in a brown study
be in a certain state
be in a dilemma
be in a hurry
be in a quandary
be in a rut
be in a speech situation
be in a state
be in accord with
be in action
be in bloom
be in cahoots
be in cahoots with
be in commission
be in concert
be in connection
be in contact
be in danger
be in desperate case
be in dissent
be in earnest
be in effect
be in error
be in existence
be in favor of
be in flower
be in for
be in for it
be in force
be in front
be in harmony with
be in heat
be in heaven
be in hopes
be in intercourse
be in it
be in league
be in line for
be in love with
be in luck
be in mortal dread of
be in need of
be in no hurry
be in office
be in on the decisions
be in operation
be in opposition to
be in paradise
be in peril
be in phase
be in process
be in progress
be in receipt of
be in rut
be in service with
be in seventh heaven
be in stitches
be in store
be in suspense
be in the best of health
be in the books
be in the cards
be in the dark
be in the debt of
be in the driver's seat
be in the family way
be in the fire
be in the future
be in the hopper
be in the neighborhood of
be in the pink
be in the pipeline
be in the prime of life
be in the running
be in the saddle
be in the van
be in the vanguard
be in the vicinity of
be in the way of
be in the works
be in the wrong
be in time
be in touch
be in tune
be in tune with
be in want
be in your dotage
be in your estimation
be in your mind
be in your second childhood
be in your thoughts
be inattentive
be incarnated
be inclined to think
be incognito
be incommunicado
be incomplete
be incomprehensible
be incredible
be incredulous
be incumbent on
be incumbent upon
be incurious
be indebted
be independent
be indicated
be indicative of
be indifferent
be indifferent to
be indiscreet
be industrious
be ineffective
be infanticipating
be inferior
be infinite
be infinitely repetitive
be influential
be informed
be inharmonious
be inhospitable
be inimical
be innocent of
be innocent of forethought
be inquisitive
be insane
be inscribed
be inseparable
be insolent
be inspired
be left at the post
be left at the starting gate
be left behind
be left over
be lengthy
be lenient
be let down
be liable
be liable for
be liberal with
be light
be like
be likely
be limited by
be listened to
be livid
be loaded
be located
be logical
be long
be long in the tooth
be long of the market
be loquacious
be lost
be lost in thought
be loving
be low
be lucky
be made one
be made public
be magnetic
be manifest
be master
be master of
be master of the situation
be meaningless
be merry with
be met with
be misguided
be misled
be missed
be mistaken
be moderate
be modest
be more than a match for
be moved
be mute
be nailed to the cross
be nauseated
be near
be near the truth
be necessary
be neglectful
be negligent
be nervous
be neutral
be nice
be nice to
be no more
be no revelation
be no secret
be nobody's fool
be noisy
be not all there
be not your day
be noticeable
be numerous
be nuts about
be obligated
be obligated for
be obliged
be obliged for
be observant
be obsessed with
be obstinate
be occupied with
be of advantage to
be of another mind
be of favorable disposition
be of good cheer
be of good hope
be of like mind
be of no importance
be of one
be of one mind
be of one mind with
be of service
be of service to
be of some help
be of the opinion
be of the same
be of the same order
be of two minds
be of use
be off
be off and running
be off the track
be off your guard
be on
be on a collision course
be on a collision course with
be on an ego trip
be on cloud nine
be on deck
be on everyone's lips
be on good terms
be on hand
be on her beam ends
be on pins and needles
be on pleasure bent
be on the
be on the alert
be on the anvil
be on the back of
be on the ball
be on the fence
be on the lookout
be on the lookout for
be on the point of
be on the right scent
be on the rolls
be on the safe side
be on the same wavelength
be on the skids
be on the spot
be on the watch
be on the watch for
be on to
be on your best behavior
be on your feet
be on your good behavior
be on your guard
be on your last legs
be on your mettle
be on your mind
be on your uppers
be on your way
be one all over
be open to
be operative
be opposed to
be opposite
be optimistic
be ordained
be ostentatious
be otherwise occupied
be out for blood
be out of all patience
be out of it
be out of line
be out of step
be out of the running
be out of the woods
be out of your depth
be out of your mind
be outdistanced
be outrun
be over
be overdue
be overfamiliar with
be overpossessive
be overpriced
be pacifistic
be paid
be painless
be painstaking
be parallel
be paralyzed with fear
be parsimonious
be partial to
be partners in
be past
be patient
be pensioned
be pensioned off
be permissive
be permitted
be persuaded
be persuasive
be pessimistic
be pinched
be pious
be pissed
be plain
be pleased
be pleased with
be pliant
be poised
be poleaxed
be poor
be possessed of
be possessed of the devil
be reckless
be recognized
be reconciled to
be redolent of
be reflected
be regarded
be regarded as
be regulated by
be relaxed
be relieved
be relieved of choice
be religious
be remembered
be reminiscent of
be remunerated
be renewed
be repeated
be resentful
be resolute
be resolved
be responsible
be responsible for
be revealed
be rich
be right
be rightly served
be robbed of choice
be ruined
be safe
be salaried
be sanctimonious
be satisfactory
be satisfied
be seasick
be seated
be secluded
be secure in the belief
be security for
be seen
be seen in its true colors
be seen no more
be seen with half an eye
be seized by
be seized of
be seized with wonder
be self-consistent
be selfish
be sensible of
be sent back
be separated
be servile
be set by the current
be shamed
be sharp
be short
be short of the market
be sick
be significant of
be silent
be single
be situated
be skeptical
be skillful
be slow off the mark
be slow to accept
be slow to believe
be smitten
be so
be so good as to
be so in fact
be sociable
be sold
be somebody
be something
be somewhere else
be sorry for
be sought after
be spared
be spent
be sphinxlike
be spliced
be spoiling for
be sponsor for
be staggered
be stamped on your memory
be startled
be still
be stingy
be stood up
be straight
be straight man for
be strapped
be stricken
be stricken by
be strict
be striken drunk
be strong
be strong in
be struck down
be stuck on yourself
be stuck-up
be stupid
be subject to
be subjected to
be successful
be such
be suicidal
be superannuated
be superseded
be superstitious
be surprised
be swallowed
be sweet on
be swept off your feet
be symptomatic of
be tactful
be taken aback
be taken as
be taken by death
be taken by surprise
be taken in
be taken unawares
be tasteful
be taught
be taught a lesson
be tedious
be telegraphic
be temperate
be thankful
be that as it may
be the bellwether
be the case
be the cause of
be the death of
be the death of one
be the death of you
be the decisive factor
be the duty of
be the effect of
be the equivalent of
be the fashion
be the front-runner
be the goat
be the incumbent
be the making of
be the mark of
be the matter
be the omen of
be the one that counts
be the patsy
be the plaything of
be the prey of
be the puppet of
be the rage
be the rule
be the saving of
be the sign of
be the soul of discretion
be the sport of
be the sport of winds and waves
be the style
be the thing
be the very image of
be the worse for
be the worse for wear
be theatrical
be there
be there for all to see
be thorough
be thoroughly grounded in
be thought of
be thoughtful of
be threatened
be thrilled
be thus
be timely
be tired
be to be
be to come
be to windward of
be to your liking
be told
be too deep
be too deep for
be too good for
be too much for
be touch and go
be touched
be tough
be transient
be transparent
be traumatized
be true
be truthful
be turbulent
be turned off by
be turned on by
be turned on to
be ugly
be unable to comprehend
be unable to get into your head
be unable to recall
be unable to recollect
be unable to retain
be unable to see
be unastonished
be unbelievable
be uncertain
be unchaste
be uncommunicative
be uncritical
be under an obligation
be under the impression
be under the necessity of
be under the sea
be under way
be understandable
be understood
be undesirable
be undiscriminating
be unexpected
be unfaithful
be unflappable
be ungrateful
be unguarded
be uniform with
be unimportant
be unintelligent
be uninteresting
be unintersting
be unjust
be unmarried
be unmindful of
be unmoved
be unorthodox
be unpleasant
be unprepared
be unproductive
be unready
be unregretful
be unseen
be unselfish
be unsociable
be unsuccessful
be unsure
be untruthful
be unwary
be unwilling
be up against it
be up and doing
be up and stirring
be up on
be up to
be up to something
be upbeat
be uppermost in the mind
be uppermost in your thoughts
be used to
be used up
be vain
be vain as a peacock
be victorious
be vigilant
be vigorous
be virtuous
be visible
be vital
be wafted
be warm
be watchful
be weak
be wedded to a belief
be well-informed
be wholesaler for
be widely reputed
be willing
be wiped out
be wise as a serpent
be wise as an owl
be wise to
be with child
be with it
be with one
be with young
be without end
be wont
be worth your while
be worthwhile
be worthy of
be worthy of comparison
be wreathed in smiles
be wrong
be your charge
be your due
be your fate
be your funeral
be your mission
be your office
be your outlook
be your own boss
be your own man
be your probable destiny
be your probable fate
be your prospect
be your responsibility
be yourself
be yourself again
be-
be-all
be-all and end-all
be-east
be-smut
be-smutch
beach apple
beach aster
beach bag
beach ball
beach bird
beach boat
beach buggy
beach bum
beach clam
beach crab
beach cusp
beach drifting
beach flea
beach goldenrod
beach grass
beach heather
beach pea
beach plant
beach plover
beach plum
beach ridge
beach robin
beach strawberry
beaked salmon
beaked whale
beaker culture
beaker folk
beakhorn stake
beaking joint
beam aerial
beam anchor
beam antenna
beam arm
beam board
beam brick
beam bridge
beam caliper
beam center
beam clamp
beam compass
beam engine
beam fill
beam filling
beam hole
beam knee
beam knife
beam light
beam maker
beam mill
beam net
beam of light
beam plate
beam pump
beam reach
beam riding
beam roll
beam sea
beam tetrode
beam texture
beam transmission
beam trawl
beam trawler
beam trawling
beam tree
beam well
beam wind
beam-bending
beam-end
beam-ends
beam-power tube
beam-straightening
beam-switching tube
beam-tree
beaming knife
beaming machine
bean anthracnose
bean aphid
bean aphis
bean ball
bean beetle
bean blight
bean blower
bean cake
bean caper
bean clover
bean crake
bean curd
bean cutworm
bean dolphin
bean flour
bean goose
bean harvester
bean hole
bean honey
bean house
bean king
bean ladybird
bean leaf beetle
bean leaf roller
bean louse
bean mildew
bean mosaic
bean oil
bean picker
bean planter
bean pole
bean polisher
bean pot
bean rick
bean rust
bean shot
bean sprout
bean sprouts
bean threshers
bean tree
bean trefoil
bean tressel
bean vine
bean weevil
bean-bag
bean-caper family
bean-cleaning
bean-crushing
bean-feast
bean-fed
bean-planting
bean-pod borer
bean-polishing
bean-shaped
bear a child
bear a grudge
bear a hand
bear a helping hand
bear account
bear against
bear animalcule
bear arms
bear away
bear brush
bear bush
bear cap
bear cat
bear caterpillar
bear clover
bear corn
bear cub
bear date
bear down
bear down on
bear down on it
bear down upon
bear false witness
bear festival
bear for
bear fruit
bear garden
bear good will
bear grape
bear grass
bear hard upon
bear huckleberry
bear hug
bear ill will
bear in mind
bear in with
bear leader
bear malice
bear market
bear mat
bear more than your share
bear moss
bear no resemblance
bear no resemblance to
bear oak
bear off
bear off the land
bear on
bear out
bear pack
bear panic
bear pig
bear pit
bear plum
bear pool
bear raid
bear reign
bear resemblance
bear sail
bear skeeters
bear the brunt
bear the cost
bear the expense
bear the market
bear the name of
bear the palm
bear to leeward
bear to port
bear to starboard
bear to windward
bear trap
bear up
bear up against
bear up for
bear up to
bear up under
bear upon
bear warden
bear whortleberry
bear with
bear with composure
bear witness
bear witness against
bear you company
bear young
bear your cross
bear yourself
bear yourself with credit
bear's-breech
bear's-ear
bear's-foot
bear's-foots
bear's-paw
bear-baiting
bear-lead
bear-leader
bear-trap dam
bear-tree
beard grass
beard lichen
beard moss
beard plant
beard the lion in his den
beard tree
bearded darnel
bearded lizard
bearded tit
bearded vulture
bearding line
bearding machine
bearer bar
bearer bond
bearer certificate
bearer of glad tidings
bearer plate
bearer security
bearer-off
bearing arms
bearing arrow
bearing bar
bearing block
bearing bow
bearing brass
bearing bronze
bearing cloth
bearing door
bearing gear
bearing in mind
bearing metal
bearing neck
bearing note
bearing out
bearing pile
bearing plate
bearing rail
bearing rein
bearing ring
bearing robe
bearing steel
bearing sword
bearing timber
bearing wall
bearish market
bearish prices
bearnaise sauce
bearskin gray
bearskin jobber
bearskin rug
beast epic
beast fable
beast fly
beast god
beast of burden
beast of prey
beast tale
beasts of field
beasts of prey
beasts of venery
beat a dead horse
beat a devil's tattoo
beat a retreat
beat a ruffle
beat a tattoo
beat about
beat about for
beat about the bush
beat against
beat all hollow
beat an alarm
beat around
beat around the bush
beat back
beat black and blue
beat block
beat board
beat by a nose
beat down
beat generation
beat hollow
beat into
beat into your head
beat it
beat man
beat note
beat off
beat one
beat out
beat pin
beat poet
beat reception
beat signal
beat the Dutch
beat the air
beat the bounds
beat the bushes
beat the drum
beat the drum for
beat the drums
beat the game
beat the gums
beat the rap
beat the shit out of
beat the system
beat the tar out of
beat time
beat to a jelly
beat to the draw
beat to windward
beat tone
beat up
beat up against
beat your brains
beat your brains out
beat your breast
beat your gums
beat your swords into plowshares
beat your way
beat-beat
beat-frequency oscillator
beat-up
beaten biscuit
beaten egg
beaten path
beaten proof
beaten track
beaten up
beaten work
beater press
beater-out
beater-up
beaters-up
beatific vision
beatified soul
beating heart
beating machine
beating orders
beating reed
beating-up
beatrix antelope
beau brummell
beau garcon
beau geste
beau ideal
beau ideals
beau monde
beau sabreur
beau-ideal
beau-idealize
beau-monde
beau-pleader
beau-pot
beaufort scale
beaumont root
beaus ideal
beautiful friendship
beautiful man
beautiful people
beautiful person
beautiful thing
beautiful woman
beauty bush
beauty contest
beauty contest winner
beauty culture
beauty culturist
beauty of holiness
beauty parlor
beauty pin
beauty plaster
beauty queen
beauty salon
beauty shop
beauty sleep
beauty spot
beauty treatment
beauty unadorned
beauty wash
beauty-beaming
beauty-berry
beauty-blind
beauty-blooming
beauty-blushing
beauty-breathing
beauty-bright
beauty-bush
beauty-clad
beauty-fruit
beauty-loving
beauty-parlor chitchat
beauty-proof
beauty-waning
beaux arts
beaux esprits
beaux gestes
beaux ideal
beaux yeux
beaux-arts
beaux-esprits
beaver board
beaver brown
beaver cloth
beaver dam
beaver eater
beaver finish
beaver lily
beaver poison
beaver rat
beaver stones
beaver top
beaver tree
beaver-tree
beavertail beam
beavertail reflector
beazor nuts
bec et ongles
because of
because of that
because of this
bechamel sauce
beche-de-mer
beche-le-mar
beck and call
becket bend
becket knot
becking hammerman
beckoning crab
become a habit
become a member
become acquainted with
become adept in
become airborne
become alive to
become an appendage of
become an individual
become angry
become attached to
become awake to
become aware of
become bankrupt
become bound to
become conscious of
become conversant with
become defunct
become disordered
become enamored
become engaged
become excited
become exhausted
become extinct
become familiar with
become fashionable
become fixed
become higher
become informed
become insolvent
become known
become larger
become lost to sight
become manifest
become nervous
become obsolete
become of
become old
become one
become overweight
become popular
become public
become pulverized
become red
become shallow
become sick
become sponsor for
become suicidal
become the rage
become unintoxicated
become versed in
become visible
become void
become weak
become well-versed in
becquerel ray
becuiba fat
bed ale
bed and board
bed and breakfast
bed bolt
bed chair
bed check
bed curtain
bed down
bed fuel
bed head
bed hinge
bed in
bed jacket
bed joint
bed lamp
bed lathe
bed light
bed linen
bed maker
bed mold
bed molding
bed moulding
bed of Procrustes
bed of roses
bed on
bed pad
bed piece
bed place
bed plane
bed reach
bed rest
bed rot
bed sandwort
bed sheet
bed shoes
bed slat
bed sore
bed steps
bed stone
bed tea
bed timber
bed tray
bed vein
bed wagon
bed warmer
bed-clothes
bed-davenport
bed-fere
bed-head
bed-maker
bed-sitter
bed-sitting room
bed-sitting-room
bed-wetting
bedbug hunter
bedda mat
bedding block
bedding course
bedding fault
bedding plane
bedding plant
beddy-bye
bedford cord
bedlam beggar
bedlam cowslip
bedlington terrier
bedridden invalid
bedrock valley
bedroom eyes
bedroom slipper
bedroom suburb
bedside manner
bedsitting room
bedspring type
bedstead fitter
bedstead wrench
bedstraw bellflower
bedtime prayer
bedtime story
bee balm
bee beetle
bee bird
bee block
bee brush
bee candy
bee cellar
bee culture
bee eater
bee escape
bee feed
bee fly
bee glue
bee gum
bee hawk
bee in the bonnet
bee in the head
bee in your bonnet
bee killer
bee kite
bee larkspur
bee laurel
bee louse
bee martin
bee milk
bee moth
bee nettle
bee orchid
bee orchis
bee plant
bee sage
bee scap
bee smoker
bee space
bee tree
bee wine
bee wolf
bee's knees
bee-butt
bee-eater
bee-headed
bee-loud
beech agaric
beech cherry
beech coal
beech family
beech fern
beech leaf snake
beech marten
beech mast
beech oil
beech tree
beech wheat
beech-green
beech-seedling mildew
beechnut oil
beechwood creosote
beer brewer
beer cellar
beer chiller
beer drinker
beer engine
beer fall
beer gallon
beer garden
beer glass
beer grains
beer hall
beer heart
beer keg
beer maker
beer money
beer mug
beer parlor
beer pump
beer scale
beer stone
beer vat
beer vinegar
beer yeast
beer-up
bees and honey
bees-wax
beeswax flint
beet army worm
beet blight
beet blocker
beet greens
beet harvester
beet heart rot
beet leafhopper
beet lifter
beet puller
beet root
beet rot
beet scab
beet sugar
beet webworm
beet-red
beetle brow
beetle over
beetle-browed
beetle-crusher
beetle-green
beetle-headed
beetling machine
bemit the occasion
bemit the season
bemit the time
before Christ
before all
before an audience
before everything
before its time
before long
before noon
before now
before one
before the Christian Era
before the Common Era
before the Fall
before the Flood
before the bar
before the bench
before the court
before the fact
before the footlights
before the house
before the judge
before the mast
before the war
before the wind
before your eyes
before your face
before your time
before your very eyes
before-cited
before-created
before-delivered
before-going
before-known
before-mentioned
before-named
before-noticed
before-recited
before-said
before-tasted
before-thought
before-told
before.warned
before-written
beg a truce
beg for mercy
beg for your life
beg forgiveness
beg indulgence
beg leave
beg leave to doubt
beg off
beg pardon
beg the ear of
beg the question
beg to differ
beg, borrow, or steal
beggar boy
beggar brushes
beggar description
beggar girl
beggar maid
beggar's chicken
beggar's-lice
beggar's-tick
beggar's-ticks
beggar-lice
beggar-my-neighbor
beggar-my-neighbour
beggar-patched
beggar-tick
beggar-ticks
beggarly fellow
begging hermit
begging hermits
begging the question
begin again
begin to
beginner's luck
beginning and end
beginning of the end
begonia family
begonia rose
beguile of
beguile out of
beguile the time
behave ill
behave self-destructively
behave toward
behave yourself
behavior modification
behavior pattern
behavior psychology
behavior therapist
behavior therapy
behavioral norm
behavioral science
behaviorial scientist
behavioristic psychology
behaviour therapy
behavioural science
behen oil
behenic acid
behenolic acid
behind bars
behind closed doors
behind the curtain
behind the eight ball
behind the eightball
behind the scenes
behind the times
behind the veil
behind the veil of secrecy
behind time
behind your back
behind your defenses
behind-the-scenes influence
behind-the-scenes operator
behind-the-scenes pressure
beholden to
beignet aux pommes
being ahead
being alive
being as how
being at rest
being brought to bed
being done
being here
being there
being uninteresting
bel canto
bel esprit
bel-accoil
bel-esprit
belay that
belay there
belaying cleat
belaying pin
belgian hare
belie-ve
believe anything
believe at the drop of a hat
believe in
believe without reservation
belittle yourself
bell animalcule
bell arch
bell beaker
bell book
bell borer
bell buoy
bell button
bell cage
bell canopy
bell captain
bell caster
bell casting
bell chasuble
bell chime
bell chuck
bell cord
bell cot
bell cote
bell cow
bell crank
bell crater
bell deck
bell founder
bell founding
bell frog
bell gable
bell gamba
bell glass
bell harp
bell heather
bell horse
bell jar
bell kite
bell ling
bell loft
bell magpie
bell maker
bell mare
bell metal
bell moth
bell olive tree
bell pepper
bell polyp
bell pull
bell punch
bell push
bell ringer
bell ringing
bell rope
bell salt
bell scraper
bell screw
bell seat
bell sheep
bell tent
bell the cat
bell thistle
bell toad
bell tower
bell transformer
bell trap
bell tree
bell vine
bell whistle
bell wire
bell-alarm switch
bell-bearer
bell-bird
bell-bottom
bell-bottomed
bell-bottoms
bell-cranked
bell-crowned
bell-faced
bell-flower
bell-flowered
bell-hanger's bit
bell-hooded
bell-house
bell-less
bell-like
bell-maggie
bell-metal
bell-metal ore
bell-mouthing
bell-nosed
bell-ringer
bell-shaped
bell-tongue
bell-up
bell-wether
belladonna lily
belladonna ointment
belle époque
belle poque
belle tournure
belles lettres
belles-lettres
bellflower family
belli causa
bellow like a bull
bellow out
bellow blower
bellow boy
bellow engine
bellow fish
bellow maker
bellow mender
bellow pneumatic
bellow treader
bells of Ireland
belly ache
belly board
belly brace
belly buster
belly button
belly dance
belly dancer
belly dancing
belly doublet
belly flop
belly flopper
belly friend
belly gunner
belly guy
belly landing
belly laugh
belly offal
belly out
belly rail
belly roll
belly stay
belly tank
belly truss
belly whop
belly whopper
belly worshiper
belly-band
belly-beaten
belly-blind
belly-bound
belly-bumper
belly-cheer
belly-devout
belly-fed
belly-flop
belly-flopped
belly-flopping
belly-ful
belly-god
belly-gulled
belly-gun
belly-helve
belly-laden
belly-land
belly-landing
belly-naked
belly-piece
belly-pinched
belly-proud
belly-sprung
belly-timber
belly-wash
belly-whop
belly-whopped
belly-whopping
belly-worshiping
belong to
belong to by nature
belong to the past
beloved object
below contempt
below deck
below par
below stairs
below standard
below the belt
below the limen of hearing
below the line
below the mark
below the salt
below the threshold of hearing
below zero
belt awl
belt carrier
belt clamp
belt conveyer
belt coupler
belt course
belt cutter
belt fork
belt highway
belt hoist
belt idler
belt in
belt insulation
belt knitter
belt lacing
belt line
belt maker
belt man
belt out
belt pulley
belt punch
belt railroad
belt sander
belt saw
belt shifter
belt shipper
belt slip
belt speeder
belt tenter
belt up
belt-coupled
belt-cutting
belt-driven
belt-folding
belt-repairing
belt-sanding
belt-sewing
belt-tightening
belted bias tire
belted kingfisher
belted knight
belted radial tire
belted sandfish
belter-skelter
beltsville small white
ben chervil
ben nut
ben oil
ben trovato
ben-teak
bench clamp
bench dog
bench drill
bench hardening
bench holdfast
bench hook
bench jockey
bench key
bench knife
bench lathe
bench mark
bench plane
bench press
bench root
bench scales
bench screw
bench show
bench stamper
bench stop
bench strip
bench table
bench terrace
bench test
bench tester
bench warmer
bench warrant
bench winder
bench-hardened
bench-kneed
bench-legged
bench-made
bench-mark
bench-warmer
benching iron
bend an ear
bend an ear to
bend attention to
bend back
bend dexter
bend leather
bend might and main
bend over
bend over backward
bend over backwards
bend pipe
bend sinister
bend the elbow
bend the eyes
bend the head
bend the knee
bend the knee to
bend the mind
bend the mind to
bend the mind upon
bend the neck
bend the thoughts to
bend the truth
bend to
bend to your will
bend to your yoke
bend your course
bend your ear
bend your effort
bend your steps
bend your steps for
bend your steps to
bending moment
bending press
bending punch
bending shackle
bending the knee
bending works
bends, the
bendy tree
bendy-wavy
bene vale
beneath contempt
beneath notice
beneath one
beneath the sky
beneath the sod
beneath your dignity
beneath your station
benefice-holder
beneficial interest
beneficiary heir
benefit association
benefit club
benefit from
benefit of clergy
benefit performance
benefit society
benefits forgot
benevolent despotism
benevolent disposition
bengal light
benign tumor
benjamin bush
benjamin tree
benjamin-bush
benzyl bromide
benzyl butyrate
benzyl chloride
benzyl cyanide
benzyl dichloride
benzyl fluoride
benzyl fumarate
benzyl group
benzyl isoamyl ether
benzyl radical
benzyl succinate
benzyl thiocyanate
benzylidene acetone
benzylidene chloride
berberine tree
berberonic acid
berbice chair
bereave of life
bereaved of
bereft of
bereft of life
bereft of light
bereft of reason
berenice's hair
berg adder
berg crystal
berg ice
berg till
berg wind
bergamot camphor
bergamot mint
bergamot oil
bergamot orange
bergy bit
beriberi heart
bering time
berlin eye
berlin head
berlin wool
berlin-landaulet
berline-landaulet
bermuda grass
bermuda rig
bermuda shorts
bernese mountain dog
bernicle goose
berry alder
berry cone
berry ladle
berry patch
berry pepper
berry pie
berry spoon
berry tree
berry-bearing
berry-brown
berry-formed
berry-on-bone
berry-shaped
berrybone fish
berth cargo
berth deck
bertillon system
beryl blue
beryl green
beryl-blue
beryl-green
beryllium bronze
beryllium copper
beryllium oxide
bes antler
bes-
bes-antler
beset with danger
besetting sin
beside the mark
beside the point
beside the question
beside yourself
beside yourself with joy
besom moss
bessemer converter
bessemer process
best bet
best bib and tucker
best bower
best clothes
best end
best friend
best girl
best love
best man
best part
best people
best regards
best room
best seller
best type
best wishes
best, the
best-able
best-abused
best-accomplished
best-agreeable
best-armed
best-ball
best-ball foursome
best-ball match
best-beloved
best-bred
best-built
best-clad
best-conditioned
best-conducted
best-considered
best-consulted
best-cultivated
best-dressed
best-established
best-esteemed
best-formed
best-graced
best-grounded
best-hated
best-humored
best-informed
best-intentioned
best-known
best-laid
best-learned
best-liked
best-loved
best-made
best-managed
best-meaning
best-meant
best-minded
best-natured
best-nourishing
best-paid
best-paying
best-pleasing
best-preserved
best-principled
best-read
best-resolved
best-selling
best-sighted
best-skilled
best-tempered
best-trained
bestir yourself
bestow consideration upon
bestow honor upon
bestow on
bestow thought upon
bestow your affections on
bestow your hand upon
bet against
bet on
bet upon
bet your boots
bet your bottom dollar
bet your bottom dollar on
beta brass
beta decay
beta function
beta globulin
beta iron
beta particle
beta radiation
beta radiator
beta ray
beta rhythm
beta test
beta transformation
beta-amylase
beta-eucaine
beta-glucose
beta-indoleacetic acid
beta-naphthol
beta-naphthyl
beta-naphthyl benzoate
beta-naphthyl group
beta-naphthyl radical
beta-naphthyl salicylate
beta-naphthylamine
beta-orcin
beta-orcinol
beta-ray spectrograph
beta-ray spectrometer
betake yourself
betake yourself to
bete noire
betel nut
betel palm
betel pepper
betel phenol
bethink yourself
bethink yourself of
betray a confidence
betray itself
betray yourself
betrayed hope
better days
better for
better half
better off
better part
better self
better sort
better than nothing
better thoughts
better world
better yourself
better-advised
better-affected
better-balanced
better-becoming
better-behaved
better-born
better-bred
better-considered
better-disposed
better-dressed
better-humored
better-informed
better-knowing
better-known
better-liked
better-liking
better-meant
better-natured
better-omened
better-principled
better-regulated
better-seasoned
better-taught
better-witted
betterment tax
betting house
betting machine
betting parlor
betting ring
betting shop
betting system
betula camphor
betula oil
between Scylla and Charybdis
between acts
between brain
between decks
between halves
between now and then
between ourselves
between periods
between the hammer and the anvil
between the lines
between the teeth
between two fires
between two stools
between us
between wind and water
between you
between you and me
between your teeth
between-deck
between-decks
between-maid
between-whiles
betwixt and between
betwixt sleep and waking
beurre blanc
beurre fondu
beurre noir
bevel bearing
bevel edge
bevel gauge
bevel gear
bevel gearing
bevel joint
bevel pinion
bevel protractor
bevel siding
bevel square
bevel washer
bevel wheel
bevel-edged
bevel-faced hammer
beveling edge
beverage room
beyond a doubt
beyond a shade of doubt
beyond a shadow of doubt
beyond all bounds
beyond all expectation
beyond all limits
beyond all praise
beyond all question
beyond belief
beyond compare
beyond comparison
beyond control
beyond doubt
beyond expectation
beyond measure
beyond need
beyond one
beyond price
beyond question
beyond reach
beyond reason
beyond recall
beyond remedy
beyond seas
beyond the bounds
beyond the bounds of possibility
beyond the bounds of reason
beyond the call of duty
beyond the pale
beyond the shadow of a doubt
beyond understanding
beyond your ability
beyond your capacity
beyond your comprehension
beyond your control
beyond your depth
beyond your fondest dreams
beyond your means
beyond your power
beyond, the
bez antler
bez tine
bez-antler
bezoar antelope
bezoar goat
bezoar mineral
bezoar stone
bbut-bali
bi-
bi-bivalent
bi-guy
bi-iliac
bi-ischiadic
bi-ischiatic
bi-tri-
bialystok roll
bias binding
bias tire
bias your judgment
bib and brace
bib and tucker
bib nozzle
bib pout
bibble-babble
bible-christian
bible-clerk
biblico-
biblio-
bibliography of bibliographies
bicameral legislature
bicarbonate of soda
bice blue
bice green
bichloride of mercury
bichromate cell
bichromate filter
bick-iron
bicker over
bicolor lespedeza
bicusp
d valve
bicycle chain
bicycle clip
bicycle path
bicycle pump
bicycle race
bicycle racing
bicycle saddle
bicycle seat
bicycle-built-for-two
bic
cyclic terpene
bid Godspeed
bid a long farewell to
bid ale
bid at auction
bid bond
bid come
bid defiance
bid defiance to
bid euchre
bid fair
bid fair to
bid farewell
bid for
bid good day
bid good morning
bid good-bye
bid hello
bid in
bid prayer
bid price
bid time return
bid to combat
bid up
bid well
bid you welcome
bid-a-bid
bid-ale
bid-and-asked prices
biddery ware
bidding prayer
biddy-bid
biddy-biddy
bide the issue
bide your time
bidgee-widgee
biding place
bien cuit
bien entendu
bier right
bifurcation theory
big Chief
big Daddy
big White Chief
big as you please
big baby
big bag of wind
big band
big bang theory
big battalions
big bedbug
big ben
big bluestem
big boss
big boy
big brother
big bruise
big bug
big business
big businessman
big casino
big cat
big cheese
big chief
big deal
big dipper
big drink
big drunk
big end
big game
big game hunter
big gun
big hand
big heart
big hit
big hook
big house
big idea
big laurel
big league
big lie
big man
big man on campus
big marigold
big mouth
big name
big noise
big operator
big person
big price tag
big screen
big shot
big sister
big skate
big smoke
big stick
big talk
big talker
big time
big toe
big top
big top, the
big tree
big wheel
big wind
big with child
big with meaning
big with young
big word
big-antlered
big-armed
big-bang theory
big-bearded
big-bellied
big-bodied
big-boned
big-bosomed
big-breasted
big-bulked
big-chested
big-city man
big-cone pine
big-cone spruce
big-eared
big-endian
big-eyed
big-footed
big-framed
big-gaited
big-handed
big-headed
big-heartyed
big-hoofed
big-jawed
big-laden
big-leaf ivy
big-leaf laurel
big-leaf maple
big-league
big-leaguer
big-leaved
big-leaved magnolia
big-looking
big-mouthed
big-name
big-nosed
big-note
big-rich
big-souled
big-sounding
big-swollen
big-ticket
big-time
big-time operator
big-time spender
big-timer
big-voiced
big-waisted
big-eye scad
bigger half
biggest frog in the pond
bighorn sheep
big-lip sucker
bigmouth buffalofish
bihar tree
biik tooling
bilateral symmetry
bile acid
bile cyst
bile duct
bile pigment
bile salt
bile vessel
bilge block
bilge board
bilge coad
bilge keel
bilge keelson
bilge log
bilge piece
bilge pump
bilge rail
bilge saw
bilge strake
bilge water
bilge ways
bilge well
bilge-hoop
bilge-keel
bilge-water
bili-
biliary calculus
biliment lace
bilinear form
bilinear transformation
bilingual dictionary
billiard ball
billiard cloth
billiard cue
billiard green
billiard match
billiard parlor
billiard player
billiard room
billiard table
billing and cooing
billing machine
billion-dollar grass
billow cloud
billowy cloud
billy check
billy club
billy fairplay
billy gar
billy gate
billy goat
billy owl
billy playfair
billy tea
billy-button
billy-goat
billy-goat weed
billycock hat
bimetallic balance
bimetallic strip
bin-
bin-burn
binary arithmetic
binary cell
binary code
binary digit
binary fission
binary form
binary notation
binary number
binary operation
binary opposition
binary scale
binary star
binary system
binary-coded decimal
binary-coded decimal system
binaural broadcasting
binaural system
bio-electrogenesis
bio-energetics
bio-osmosis
bio-osmotic
biochemical oxygen demand
biographical dictionary
biographical material
biographical records
biographical sketch
biological adjutant actions
biological classification
biological clock
biological control
biological death
biological diagnosis
biological evolution
biological method
biological oxygen demand
biological product
biological science
biological sociology
biological species
biological stain
biological supplies
biological taxonomy
biological urge
biological vector
biological warfare
biological weapons
biotic potential
bipartisan policy
biphenyl rearrangement
birch beech
birch beer
birch borer
birch camphor
birch family
birch oil
birch partridge
birch skeletonizer
birch wine
birch-bark call
birch-bark oil
birch-leaf mahogany
birch-leaf skeletonizer
birch-tar oil
bird augury
bird bell
bird bolt
bird brier
bird cactus
bird cage
bird call
bird cherry
bird colonel
bird dog
bird duffer
bird eagles
bird eye
bird fancier
bird flower
bird fly
bird font
bird food
bird grape
bird grass
bird group
bird in hand
bird in the hand
bird knotgrass
bird life
bird louse
bird malaria
bird mite
bird net
bird of Jove
bird of Juno
bird of Minerva
bird of another feather
bird of ill omen
bird of night
bird of paradise
bird of passage
bird of peace
bird of prey
bird pepper
bird pest
bird plant
bird pox
bird preserver
bird rattle
bird refuge
bird sanctuary
bird seed
bird shop
bird shot
bird skin
bird snake
bird song
bird sound
bird spider
bird strike
bird stuffer
bird table
bird thistle
bird tick
bird vetch
bird watcher
bird whistle
bird young
bird's beak
bird's egg
bird's mouth
bird's nest
bird's nest soup
bird's-eye
bird's-eye maple
bird's-eye primrose
bird's-eye view
bird's-eyes
bird's-foot
bird's-foot fern
bird's-foot trefoil
bird's-foot violet
bird's-feet
bird's-nest
bird's-nest fern
bird's-nest fungus
bird's-nest orchid
bird's-nest soup
bird-batting
bird-brained
bird-cage
bird-dog
bird-dogged
bird-dogging
bird-egg pea
bird-eyed
bird-faced
bird-fingered
bird-foot
bird-foots
bird-in-the-bush
bird-lime
biscuit baker
biscuit baking
biscuit beetle
biscuit box
biscuit china
biscuit clay
biscuit cutter
biscuit drawer
biscuit fire
biscuit fireman
biscuit firing
biscuit kilnman
biscuit leaves
biscuit oven
biscuit painter
biscuit pan
biscuit plant
biscuit porcelain
biscuit pottery
biscuit tortoni
biscuit ware
biscuit warehouse
biscuit weevil
biscuit worm
biscuit-brained
biscuit-colored
biscuit-fired
biscuit-shaped
bisecting compass
bisecting dividers
bishop bird
bishop coadjutor
bishop cotton
bishop pine
bishop ray
bishop sleeve
bishop stool
bishop suffragan
bishop's mitre
bishop's palace
bishop's purple
bishop's ring
bishop's weed
bishop's-cap
bishop's-weed
bismuth blende
bismuth chromate
bismuth glance
bismuth ocher
bismuth oxychloride
bismuth oxynitrate
bismuth spar
bismuth subchloride
bismuth subnitrate
bismuth tribromphenate
bismuth white
bismuth yellow
bismuthyl chloride
bisextile day
bisextile year
bistable circuit
bister green
bit by bit
bit gauge
bit key
bit much, a
bit of your mind
bit part
bit pincers
bit player
bit stop
bit, a
bit-by-bit
bit-weight control
bit-wise
bitch box
bitch chain
bitch goddess
bitch up
bitch-kitty
bitched up
bite back
bite in
bite off more than you can chew
bite plate
bite the bullet
bite the dust
bite the hand that feeds one
bite the hand that feeds you
bite the thumb at
bite the tongue
bite your head off
bite your lip
bite your nails
bite your nose off
bite your tongue
bite-sheep
bite-tongue
biting angle
biting housefly
biting louse
biting midge
biting wind
biting your nails
bito tree
bitt pin
bitten-leaf disease
bitter almond
bitter almond oil
bitter apple
bitter as gall
bitter cassava
bitter chocolate
bitter cold
bitter cress
bitter cup
bitter defeat
bitter disappointment
bitter dock
bitter draft
bitter draught
bitter end
bitter enemy
bitter feeling
bitter herb
bitter lake
bitter lemon
bitter orange
bitter pill
bitter principle
bitter resentment
bitter rot
bitter weather
bitter wood
bitter words
bitter-
bitter-almond oil
bitter-biting
bitter-end
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bitter-orange oil
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bitter-tasting
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bitterly disappointed
bitterness of spirit
bitumen process
bituminous coal
bituminous macadam
biuret reaction
biuret test
bivalvate Biology
biw-
blab out
blab school
black Angus
black Minorca
black Orpington
black Spanish
black Sumatra
black acacia
black alder
black and blue
black and tan
black and white
black ant
black arm
black art
black art, the
black as a crow
black as coal
black as ebony
black as ink
black as midnight
black as night
black as pitch
black balsam
black basaltes
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black durgon
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black fever
black fish
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black friar
black frost
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black guillemot
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black hand
black haw
black heat
black hellebore
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black hole
black horehound
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black humor
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black ivory
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black knot
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black nightshade
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black oak
black opal
black or white
black out
black paternoster
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black pewter
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black plague
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black powder
black power
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black pudding
black quarter
black race
black raspberry
black rat
black ring
black rod
black root rot
black rot
black rudderfish
black ruff
black rust
black sable
black sage
black salts
black saltwort
black-eyed Susan
black-eyed pea
black-eyed susan
black-faced
black-favored
black-feathered
black-figure
black-figured
black-fin snapper
black-footed
black-footed ferret
black-fruited
black-gowned
black-hafted
black-haired
black-head
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black-headed fireworm
black-headed gull
black-hearted
black-hilted
black-hole
black-hooded
black-hoofed
black-leg
black-legged
black-letter
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black-lidded
black-lipped
black-locked
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black-margined
black-market
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black-neb
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black-out
black-peopled
black-plumed
black-pot
black-red
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black-sander
black-shouldered
black-skinned
black-snake
black-spot canker
black-spotted
black-stoled
black-tail
black-tailed
black-tailed deer
black-thorn
black-throated
black-tie
black-toed
black-tongued
black-tressed
black-tufted
black-varnish tree
black-veiled
black-visaged
black-wash
black-whiskered
black-wood
blackback flounder
blackbanded sunfish
blackbelly rosefish
blackberry bark
blackberry lily
blackberry token
blackberry wine
blackbird bindweed
blackboy gum
blackcrowned night heron
blacken your good name
blacken your good name
blacken your good name
blacken your good name
blacken your good name
blacken your good name
blacken your good name
blackhead Persian
blackhead disease
blackhead grass
blackhead minnow
blackheart plover
blackjack oak
blackjack pine
blackland plow
blackout skit
blackpoll warbler
blacksmith shop
blacksmith welding
blacksmith's hammer
blacksmith's shop
blackstrap molasses
blacktail deer
blackwall hitch
blackwater fever
blad apple
bladder campion
bladder catchfly
bladder cherry
bladder fern
bladder fucus
bladder green
bladder herb
bladder kelp
bladder ketmia
bladder ketmie
bladder plum
bladder sedge
bladder senna
bladder snout
bladder tangle
bladder tree
bladder worm
bladder wrack
bladdernut family
bladderwort family
blade angle
blade apple
blade buffer
blade grader
blade harrow
blade roast
blade-point
blah feeling
blah-blah
blame for
blame on
blame upon
blame yourself
blame-shifting
blanc d'Espagne
blanc d'argent
blanc de blancs
blanc de fard
blanc de noirs
blanc fixe
blanch farm
blanch over
blanched almonds
blanco perch
bland diet
blank cartridge
blank check
blank cheque
blank despondency
blank determination
blank endorsement
blank flange
blank future
blank mind
blank out
blank shell
blank verse
blank wall
blank-eyed
blank-looking
blank-minded
blanket alga
blanket ballot
blanket binder
blanket binding
blanket chest
blanket cloth
blanket deposit
blanket drill
blanket fish
blanket holder
blanket leaf
blanket maker
blanket mortgage
blanket moss
blanket policy
blanket rate
blanket roll
blanket scum
blanket sheet
blanket stiff
blanket stitch
blanket washer
blanket weaver
blanket weaving
blanket-flower
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bleasting tools
bleasting tube
blasto-
blatti family
blaze a trail
blaze about
blaze abroad
blaze current
blaze of glory
blaze of light
blaze of temper
blaze the trail
blaze up
blazing fire
blazing light
blazing star
blazon about
blazon abroad
blazon forth
bleach liquor
bleach out
bleach process
bleach wax
bleached blond
bleached out
bleached white
bleached-blond
bleaching agent
bleaching clay
bleaching croft
bleaching earth
bleaching engine
bleaching field
bleaching green
bleaching ground
bleaching powder
bleaching substance
bleaching tank
bleak outlook
bleak prognosis
bleak prospect
bleak weather
blear the eyes of
blear-eyed
blear-eyedness
blear-witted
bleary-eyed
bled white
bleed for
bleed nipple
bleed valve
bleed white
bleeder pipe
bleeder resistor
bleeder tile
bleeder's disease
bleeding disease
bleeding heart
bleeding-heart pigeon
bleeper Informal
blend in with
blend into
blend-word
blended whiskey
blending inheritance
blenno-
blennorrhagic arthritis
blephar-
blepharo-
bles mole
bles-bok
bless His holy name
bless my heart
bless out
bless the Lord
bless with
bless your stars
blessed event
blessed release
blessed sacrament
blessed thistle
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blighted area
blighted hope
blighted neighborhood
blighted section
blighting glance
blind Chance
blind Justice
blind alley
blind and naked Ignorance
blind as a bat
blind as a mole
blind as an owl
blind bargain
blind bombing
blind casing
blind coal
blind copy
blind date
blind door
blind drunk
blind faith
blind fish
blind flange
blind flight
blind floor
blind flying
blind guess
blind gut
blind header
blind hookey
blind impulse
blind instinct
blind landing
blind leaders of the blind
blind man
blind man's buff
blind man's holiday
blind man's rule
blind man's watch
blind nailing
blind pig
blind poker
blind pool
blind rage
blind salamander
blind seed
blind side
blind snake
blind spot
blind spots
blind staggers
blind stamping
blind the eyes
blind tiger
blind to
blind tooling
blind trust
blind window
blind your eyes
blind yourself
blind yourself to
blind, the
blind-alley
blind-head
blind-loaded
blind-man's-buff
blind-nail
blind-nettle
blind-pigger
blind-pigging
blind-punch
blind-stamp
blind-stamped
blind-tool
blind-tooled
blind-worm
blind-your-eyes
blindfold chess
blindfolded Justice
blinding light
blindman's bluff
blindman's buff
blink aside
blink at
blink away
blink beer
blink comparator
blink microscope
blink-eyed
blinker lamp
blinker light
blinker tube
blinking light
blinking sort o' place
bliss body
blister beetle
blister blight
blister bush
blister canker
blister canopy
blister cone
blister copper
blister flower
blister fly
blister gas
block in
block in course bond
block irrigation
block lava
block letter
block line
block maker
block mast
block model
block mold
block mountain
block off
block out
block party
block pattern
block plan
block plane
block print
block printing
block punch
block rate
block release
block signal
block signaling
block signals
block sugar
block system
block teeth
block the light
block tin
block up
block vote
block-book
block-caving
block-in-course bond
block-printed
block-saw
block-serifed
block-signal system
blockade-runner
blockade-running
blocked shoe
blocked-out
blocker-out
blockhead board
blocking back
blocking condenser
blocking course
blocking drive
blocking hammer
blocking out
blocking press
blocking process
blocking the light
blond-haired
blond-headed
blonde lace
blood albumin
blood and thunder
blood bank
blood baptism
blood bath
blood blister
blood bond
blood bread
blood brother
blood brotherhood
blood carcake
blood cast
blood cell
blood clam
blood clot
blood corpuscle
blood count
blood covenant
blood crisis
blood crystals
blood culture
blood cup
blood disease
blood diseases
blood disk
blood dock
blood donor
blood donor center
blood dust
blood feud
blood fine
blood flour
blood fluke
blood geranium
blood gill
blood gland
blood glue
blood groove
blood group
blood tree
blood type
blood typing
blood vengeance
blood vessel
blood vine
blood-albumin glue
blood-and-guts
blood-and-thunder
blood-bedabbled
blood-bespotted
blood-besprinkled
blood-boltered
blood-bought
blood-cemented
blood-colored
blood-consuming
blood-defiled
blood-discolored
blood-drenched
blood-drop emlets
blood-drunk
blood-dyed
blood-extorting
blood-faced
blood-filled
blood-fired
blood-flecked
blood-frozen
blood-guilty
blood-gushing
blood-heat
blood-hot
blood-hued
blood-letter
blood-letting
blood-loving
blood-lye salt
blood-mad
blood-money
blood-plashed
blood-polluted
blood-polluting
blood-raw
blood-red
blood-relation
blood-root
blood-scrawled
blood-shaken
blood-shot
blood-shotten
blood-sized
blood-spattered
blood-spavín
blood-stain
blood-stirring
blood-stirringness
blood-stone
blood-strange
blood-suck
blood-sucker
blood-swelled
blood-swoln
blood-tinctured
blood-type
blood-vascular
blood-vessel
blood-warm
blood-wite
blood-won
blood-worm
blood-wort
bloodless operation
bloodless revolution
bloodless surgery
bloodwort family
bloody butchers
bloody flux
bloody hands
bloody mary
bloody mess
bloody murder
bloody noun
bloody shirt
bloody your hands with
bloody-back
bloody-bones
bloody-eyed
bloody-faced
bloody-handed
bloody-hearted
bloody-minded
bloody-mindedness
bloody-mouthed
bloody-nosed
bloody-red
blot out
blot out your sins
blot up
blotch printing
blotch-shaped
blotting book
blotting case
blotting out
blotting pad
blotting paper
blow a fuse
blow a gasket
blow a horn
blow a hurricane
blow a kiss
blow a safe
blow about
blow accordion
blow away
blow case
blow down
blow for blow
blow great guns
blow hard
blow hot and cold
blow in
blow into
blow it
blow job
blow me down
blow milk
blow mold
blow molding
blow moulding
blow off
blow off steam
blow off the lid
blow on
blow open
blow out
blow over
blow post
blow sky-high
blow snake
blow the bugle
blow the chance
blow the clarion
blow the coals
blow the horn
blow the lid off
blow the tank
blow the trumpet
blow the whistle
blow the whistle on
blow through
blow to
blow to bits
blow to kingdom come
blow to pieces
blow tube
blow up
blow up a storm
blow up the fire
blow upon
blow valve
blow wash
blow your brains out
blow your cool
blow your cover
blow your lines
blow your mind
blow your own horn
blow your own trumpet
blow your stack
blow your top
blow yourself to
blow-
blow-bies
blow-by
blow-by-blow
blow-dry
blow-fly
blow-hard
blow-hole
blow-in
blow-iron
blow-molded
blow-pipe
blow-through
blow-up
blow-wave
blower-up
blowing charge
blowing cylinder
blowing engine
blowing fan
blowing furnace
blowing hot and cold
blowing iron
blowing machine
blowing mold
blowing pipe
blowing tube
blowing up
blown glass
blown over
blown up
blown up out of all proportion
blown-in-the-bottle
blown-mold
blown-molded
blown-out
blown-up
blowout grass
blowout magnet
blowpipe analysis
blowpipe reaction
blubber cask
blubber chopper
blubber fork
blubber grass
blubber lamp
blubber oil
blubber ship
blubber spade
blubber stove
blubber-cheeked
blubber-fed
blue Andalusian
blue Johnnies
blue Monday
blue Orpington
blue alert
blue angel
blue asbestos
blue baby
blue bag
blue bed
blue bell
blue belt
blue bird
blue black
blue blazing star
blue blindness
blue blood
blue bloods
blue bonnet
blue book
blue bottle
blue buck
blue bull
blue butcher
blue cat
blue cheese
blue chip
blue chip stock
blue coat
blue cohosh
blue colors and pigments
blue comb
blue copperas
blue coral
blue crab
blue crane
blue curls
blue daisy
blue dandelion
blue darter
blue dawn-flower
blue devil
blue devils
blue dicks
blue dogwood
blue dyer
blue ensign
blue eye
blue false indigo
blue fish
blue flag
blue flash
blue fox
blue funk
blue gas
blue goose
blue gown
blue grama
blue grosbeak
blue ground
blue grouse
blue gum
blue heaven
blue huckleberry
blue in the face
blue iron earth
blue jasmine
blue jay
blue jeans
blue john
blue joke
blue language
blue law
blue laws
blue lily-turf
blue line
blue lips
blue lobelia
blue lotus
blue mangler
blue marguerite
blue marlin
blue mass
blue melilot
blue mill
blue mixer
blue mockingbird
blue mold
blue moon
blue mould
blue movie
blue mud
blue myrtle
blue note
blue ointment
blue onyx
blue pencil
blue penguin
blue peter
blue phlox
blue pickerel
blue pigeon
blue pike
blue pikeperch
blue pill
blue plate
blue point
blue pointer
blue powder
blue presser
blue pressman
blue racer
blue riband
blue ribbon
blue rockfish
blue ruin
blue runner
blue shark
blue sheep
blue shift
blue sky
blue spirea
blue spruce
blue star grass
blue stellar object
blue stem
blue stone
blue story
blue streak
blue succory
blue thistle
blue tit
blue trucker
blue turquoise
blue velvet
blue verditer
blue vervain
blue vitriol
blue walleye
blue water
blue whale
blue with cold
blue wood aster
blue ynde
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blue-annealed
blue-aproned
blue-arc phenomenon
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blue-bellied
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blue-blooded
blue-blossom
blue-bloused
blue-bottle
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blue-checkered
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blue-colored
blue-crested
blue-cross
blue-cross gas
blue-cross shell
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blue-devilism
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blue-eyed boy
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blue-flowered
blue-footed
blue-fronted
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blue-red
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blue-ribboner
blue-ribbonism
blue-ribbonist
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blue-rolled
blue-sailors
blue-sighted
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blue-spotted
blue-stained
blue-starry
blue-stemmed
blue-stocking
blue-striped
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blue-tinted
blue-tongued
blue-veined
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blue-water
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blueback salmon
blueback trout
blueberry ash
blueberry cornel
blueberry maggot
blueberry root
blueberry tree
bluebottle fly
bluebrick university
bluecoat boys
bluecoat school
bluefin tuna
bluehead sucker
bluejack oak
blueprint paper
blues singer
blues song
bluethroat pikeblenny
bluewater sailor
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bluff off
bluff-bowed
bluff-headed
bluish-green
blunder away
blunder into
blunder on
blunder upon
blunderers round about a meaning
blunt-angled
blunt-edged
blunt-ended
blunt-faced
blunt-headed
blunt-leaved
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blunt-pointed
blunt-spoken
blunt-witted
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blur distinctions
blurred speech
blurred vision
blurring the eyes
blurt out
blush rose
blush unseen
blush up to the eyes
blush-colored
blush-compelling
blush-faced
blush-suffused
blush-tinted
blushing bride
blushing honors
bluster and bluff
bluster into
bluster out of
bo tree
bo-peep
bo-tree
boa constrictor
boa-constrictor
boar dog
boar grunt
boar hunt
boar stag
boar thistle
boar tree
boar-fish
boar-hunting
board and batten
board and board
board and room
board chairman
board check
board chopper
board cloth
board combiner
board company
board cover
board fence
board foot
board game
board liner
board lot
board maker
board measure
board of aldermen
board of commissioners
board of directors
board of education
board of elections
board of estimate
board of health
board of regents
board of supervisors
board of trade
board of trustees
board of visitors
board rack
board room
board rubber
board rule
board scale
board school
board side
board wages
board work
board worker
board-and-roomer
board-and-shingle
board-school
board-wages
boarder-up
boarding house
boarding nettings
boarding officer
boarding pike
boarding ramp
boarding school
boarding-out system
boards, the
boast of
boasting chisel
boat ax
boat bed
boat boy
boat bridge
boat bug
boat chock
boat club
boat crane
boat deck
boat drill
boat falls
boat hand
boat hire
boat hook
boat line
boat livery
boat nail
boat neck
boat neckline
boat pan
boat patch
boat people
boat race
boat seaplane
boat show
boat song
boat spike
boat steerer
boat train
boat truck
boat-bill
boat-billed heron
boat-fly
boat-green
boat-handler
boat-lowering
boat-race
boat-shaped
boat-tailed
boat-tailed grackle
boat-woman
boatswain bird
boatswain's call
boatswain's chair
boatswain's mate
boatswain's pipe
boatswain's stores
bob a curtsy
bob and wheel
bob down
bob for
bob runner
bob skate
bob skates
bob up
bob veal
bob wheel
bob wig
bob wire
bob-cherry
bob-haired
bob-sled
bob-tail
bob-white
bob-wig
bobbery pack
bobbin and fly frame
bobbin barreler
bobbin board
bobbin borer
bobbin boy
bobbin carrier
bobbin chucker
bobbin cleaner
bobbin filler
bobbin lace
bobbin maker
bobbin making
bobbin net
bobbin polisher
bobbin riveter
bobbin shifter
bobbin sinker
bobbin stripper
bobbin tester
bobbin tier
bobbin-net
bobby calf
bobby pin
bobby socks
bobby soxer
bobby-dazzler
bobby-socker
bobby-soxer
bobsy-die
bobtail drawbridge
bobtail flush
bobtail straight
bobtailed arrow
bobwhite quail
bock beer
boedd-
boedhi tree
bodice maker
bodies seven
bodily appetite
bodily charm
bodily comfort
bodily discharge
bodily grace
bodily love
bodily pleasure

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bodily size
bodkin beard
body Brussels
body English
body and blood of Christ
body armor
body axis
body bag
body blight
body blow
body brace
body building
body cavity
body cell
body centrome
body check
body cloth
body clothes
body clothing
body coat
body color
body colour
body constituent
body corporate
body count
body curer
body designer
body ease
body erecter
body fat
body finisher
body fluid
body former
body forth
body garment
body girth
body gripper
body harness
body heat
body height
body ill
body image
body ironer
body language
body linen
body lining
body loop
body louse
body maker
body mounter
body odor
body of Christ
body of Christians
body of advisers
body of affiliates
body of evidence
body of ideas
body of knowledge
body of law
body of learning
body of retainers
body of the crime
body of theory
body of water
body pain
body physician
body pigment
body plague
body plan
body plasm
body politic
body post
body scent
body servant
body shirt
body shop
body slam
body slave
body snatcher
body snatching
body stealing
body stocking
body suit
body surface
body track
body type
body varnish
body washer
body weight
body white
body whorl
body-breaking
body-build
body-centered
body-centred
body-guard
body-killing
body-line
body-line bowling
body-mind
body-snatching
boeuf a la bourguignonne
boeuf bourguignon
bofors gun
bog arum
bog asphodel
bog bean
bog bilberry
bog birch
bog blister
bog blueberry
bog bull
bog bulrush
bog butter
bog cotton
bog cutting
bog deal
bog down
bog earth
bog featherfoil
bog fern
bog gale
bog garden
bog gentian
bog glede
bog grass
bog hay
bog hop
bog in
bog iron
bog iron ore
bog jumper
bog lemming
bog lime
bog manganese
bog mine
bog mold
bog moss
bog myrtle
bog nut
bog oak
bog onion
bog orchid
bog orchis
bog ore
bog peat
bog pimpernel
bog pine
bog pink
bog plant
bog rhubarb
bog rose
bog rosemary
bog rush
bog spavin
bog spruce
bog stalker
bog star
bog stitchwort
bog strawberry
bog timber
bog torch
bog trefoil
bog turf
bog violet
bog whortleberry
bog willow
bog-bred
bog-down
bog-eyed
bog-hoose
bog-iron ore
bog-rush
bog-trot
bog-trotter
bogey hole
bogey man
bogey-hole
boggle-dy-botch
bogie engine
bogie roll
bogus money
bohemian bob
bohemian brethren
bohr theory
bohun upas
boil away
boil down
boil off
boil over
boil smut
boil up
boil-off
boiled dinner
boiled dressing
boiled eggs
boiled meat
boiled oil
boiled shirt
boiled sweet
boiler alarm
boiler blower
boiler cleaner
boiler compound
boiler coverer
boiler factory
boiler fitter
boiler fixer
boiler flue
boiler head
boiler horsepower
boiler inspector
boiler iron
boiler plate
boiler room
boiler scale
boiler shell
boiler shop
boiler suit
boiler tenter
boiler tube
boiler tuber
boiler-cleaning
boiler-off
boiler-out
boiler-testing
boiler-washing
boilermaker's hammer
boiling chip
boiling over
boiling point
boiling process
boiling spring
boiling stone
boiling water
boiling-house
boiling-point constant
boiling-water reactor
bois de vache
bois-brl
boite de nuit
bok choy
bold as a lion
bold as brass
bold conjecture
bold face
bold front
bold hand
bold ignorance
bold imagination
bold relief
bold stroke
bold-beating
bold-face
bold-faced
bold-facedly
bold-facedness
bold-following
bold-looking
bold-minded
bold-spirited
boldo family
boletic acid
boll hull
boll rot
boll weevil
bollard timber
bollix up
bollixed up
bolly cotton
bolo punch
bolo-bolo
bologna sausage
bolster plate
bolster up
bolt action
bolt auger
bolt boat
bolt chisel
bolt down
bolt forger
bolt from the blue
bolt hole
bolt hook
bolt in
bolt knife
bolt maker
bolt of lightning
bust out of the blue
bust rope
bust strake
bust the door
bust threader
bust upright
bust upsetter
bust-action
bust-action rifle
bust-cutting
bust-forging
bust-head
bust-hole
bust-pointing
bust-ropes
bust-shaped
bust-threading
bust-turning
bust-down
bust-up
busts-down
busts-up
busting cloth
busting house
busting hutch
busting tub
bolus alba
bomah nut
bomahnut oil
bomb bay
bomb calorimeter
bomb ketch
bomb lance
bomb out
bomb plane
bomb rack
bomb release
bomb run
bomb shelter
bomb site
bomb thrower
bomb tube
bomb vessel
bomb-ketch
bomb-proof
bomb-shell
bomb-throwing
bombaje palm
bombanassa palm
bombardier beetle
bombardment emission
bombardment rocket
bombardment squadron
bombardment weapons
bombastic person
bombay duck
bombe glacee
bomber jacket
bomber pilot
bombing locator
bombing machine
bombing mission
bombing run
bombing sap
bon ami
bon appetit
bon chretien
bon gre mal gre
bon jour
bon mot
bon soir
bon ton
bon vivant
bon viveur
bon voyage
bon-accord
bon-bon
bon-ton
bon-vivant
bona activa
bona fide
bona fide holder
bona fide purchaser
bona fideness
bona fides
bona roba
bona vacantia
bona-fide
bona-roba
bonace tree
bonaci arara
bonaci cardenal
bonaci gato
bonadventure mast
bonadventure mizzen
bonae fidei
bone jack
bone lace
bone meal
bone mill
bone of contention
bone of my bones
bone oil
bone pain
bone phosphate
bone pitch
bone plombe
bone polisher
bone porcelain
bone pot
bone precipitate
bone shark
bone sorter
bone spavin
bone spirit
bone tallow
bone tankage
bone tar
bone to pick
bone turquoise
bone up
bone waste
bone whale
bone white
bone yard
bone-ace
bone-breaking
bone-bred
bone-bruising
bone-carving
bone-chilling wind
bone-crushing
bone-dry
bone-dryness
bone-eater
bone-grinding
bone-hard
bone-idle
bone-lace
bone-laced
bone-lazy
bone-piercing
bone-rotting
bone-setter
bone-tired
bone-weary
bone-white
bone-wort
bonehead into it
bonehead play
bonehead trick
bongo drum
bonheur-du-jour
bonheurs-du-jour
bonne amie
bonne bouche
bonne foi
bonne nuit
bonnes amies
bonnes bouches
bonnet glass
bonnet gourd
bonnet grass
bonnet laird
bonnet limpet
bonnet macaque
bonnet monkey
bonnet pepper
bonnet piece
bonnet rouge
bonnet shark
bonnet shell
bonnet skate
bonnet top
bonnet-headed
bonnethead shark
bonnets rouges
bonny-clabber
bons amis
bons mots
bons vivants
bont tick
bonus issue
bonus system
bony fish
bony labyrinth
boo at
boo-boo
boo-boos
boob stunt
boob tube
booby gannet
booby hatch
booby hutch
booby prize
booby trap
booby-trap
booby-trapped
booby-trapping
boodle bag
boogie-woogie
book account
book agent
book burning
book canvasser
book card
book clamp
book clasp
book cloth
book club
book collecting
book collector
book corner
book cover
book credit
book debt
book end
book fair
book fell
book gill
book hand
book house
book in
book into
book inventory
book isinglass
book jacket
book knowledge
book learning
book list
book lore
book louse
book lung
book machine
book madness
book manufacturing
book match
book muslin
book name
book notice
book of account
book of common prayer
book of fate
book of hours
book of original entry
book of verse
book out
book packet
book palm
book part
book post
book postage
book printer
book printing
book production
book profit
book publisher
book publishing
book review
book reviewer
book reviewing
book salesman
book scorpion
book size
book society
book stamp
book stitcher
book support
book table
book tile
book token
book tray
book truck
book value
book wagon
book-case
book-craft
book-fed
book-fell
book-flat
book-folder
book-keeper
book-keeping
book-latin
book-leaf trachea
book-learned
book-learning
book-lined
boon day
boon earth
boon loaf
boon work
boost your pay
booster amplifiers
booster battery
booster charge
booster dose
booster pump
booster rocket
booster rocket unit
booster shot
booster stations
booster unit
boot camp
boot cleaner
boot closer
boot cloth
boot crimp
boot dressing
boot hill
boot hook
boot ironer
boot maker
boot needle
boot out
boot polish
boot polisher
boot powder
boot socks
boot spur
boot stretcher
boot the
boot top
boot tree
boot-cleaning
boot-hale
boot-leg
boot-topping
booted and spurred
booting out
bootlace worm
bootle-blade
bootleg liquor
bootleg play
bootleg sucker
bootless errand
boots and all
boots and saddles
booze fighter
booze up
booze-up
bor-
borax family
borax bead
borax carmine
borax glass
borax honey
borax pentahydrate
borax usta
bord gate
bord-and-pillar
bord-land
bord-lode
bordeaux mixture
border ballads
border ground
border irrigation
border light
border line
border on
border pen
border service
border stone
border terrier
border upon
border world
border-land
bordering on
bordering upon
borderline case
bore bit
bore meal
bore out of all patience
bore out of your life
bore stiff
bore to death
bore to distraction
bore to extinction
bore to tears
boreal blast
bored stiff
bored to death
bored to extinction
bored to tears
boric acid
boring bar
boring block
boring head
boring journal
boring machine
boring mill
boring pain
boring person
boring rod
boring tool
boring tube
born again
born before your time
born days
born fool
born for
born in Poland
born leader
born on itself
born out of wedlock
born to the purple
born under a bad sign
born under a lucky star
born under an evil star
born within sound of Bow bells
born yesterday
borne out
borning day
bornyl acetate
bornyl alcohol
bornyl formate
boro-
boron carbide
boron counter
boron nitride
borosilicic acid
borough council
borough english
borough reeve
borough-English
borough-english
borough-holder
borough-man
borough-master
borough-reeve
borough-town
borracha entrefina
borracha fina
borracha grossa
borrow pit
borrow the loan of
borrow trouble
borrowed plumes
borrowed stock
borrowed time
borrowed word
borrower's card
borrowing capacity
borrowing days
borrowing power
borsch circuit
borscht belt
borscht circuit
borstal boy
borstal institution
borstal school
boskop man
bosom bar
bosom buddy
bosom friend
bosom friendship
bosom ironer
bosom knee
bosom maker
bosom making
bosom piece
bosom plate
bosom staff
bosom-breathing
bosom-deep
bosom-felt
bosom-folded
bosom-stricken
boss cocky
boss plate
boss-eyed
bossa nova
boston bag
boston bull
boston cream pie
boston fern
boston ivy
boston terrier
botanical garden
botano-
botany bay
botched writing
botched-up
both-handed
both-handedness
both-hands
bott hammer
bottery tree
bottle baby
bottle blower
bottle boot
bottle brush
bottle bump
bottle cap
bottle capper
bottle carrier
bottle cleaner
bottle club
bottle coaster
bottle cod
bottle corker
bottle feeding
bottle fern
bottle filler
bottle gentian
bottle glass
bottle gourd
bottle grass
bottle green
bottle heath
bottle imp
bottle in
bottle jack
bottle jaw
bottle kiln
bottle labeler
bottle labeling
bottle maker
bottle mold
bottle molder
bottle nose
bottle opener
bottle ore
bottle palm
bottle party
bottle pool
bottle rinser
bottle screw
bottle slider
bottle soaker
bottle sterilizer
bottle stopper
bottle sucker
bottle swallow
bottle tit
bottle tree
bottle turning
bottle up
bottle washer
bottle-essed type
bottle-bellied
bottle-blowing
bottle-brush
bottle-brush buckeye
bottle-buttoed
bottle-capping
bottle-carrying
bottle-cleaning
bottle-corking
bottle-fed
bottle-feed
bottle-filling
bottle-gas stove
bottle-green
bottle-head
bottle-holder
bottle-nose
bottle-nosed
bottle-nosed dolphin
bottle-nosed whale
bottle-o
bottle-rinsing
bottle-shaped
bottle-soaking
bottle-sterilizing
bottle-tailed
bottle-tight
bottle-washer
bottle-washing
bottled gas
bottled in bond
bottlenose dolphin
bottlenose oil
bottlenose whale
bottling up
bottling works
bottom boards
cottom bolt
cottom canch
cottom disease
cottom dog
cottom dollar
cottom drawer
cottom fermentation
cottom gear
cottom glade
cottom grass
cottom heat
cottom house
cottom ice
cottom land
cottom line
cottom line, the
cottom of the barrel
cottom of the heart
cottom of the sea
cottom on
cottom out
cottom plate
cottom price
cottom rake
cottom rot
cottom round
cottom sawyer
cottom side
cottom side up
cottom stope
cottom tool
cottom up
cottom water
cottom waters
cottom yeast
cottom-dump bucket
cottom-road bridge
cottom-set
cottoming hole
cottoming out
cottoming tap
cottomless depths
cottomless pit
cottomless purse
cottomry bond
cottoms up
cottoms up!
bound up
bound up in
bound up with
bound variable
boundary condition
boundary layer
boundary light
boundary line
boundary point
boundary rider
boundary stone
boundary value problem
boundary-marking
bounden duty
bounden to
bounding bow
boundless pit
bounty hunter
bounty jumper
bounty jumping
bounty-fed
bouquet garni
bouquet larkspur
bouquets garnis
bourbon and branch water
bourbon rose
bourbon whiskey
bourbon whisky
bourdon lace
bourgeois gentilhomme
bourgeois taste
bouton pearl
bouts-rimes
bovine animal
bovine trichomoniasis
bovine vaccine
bovver boots
bow and arrow
bow and scrape
bow back
bow bearer
bow bells
bow brace
bow cap
bow chaser
bow chasing
bow collector
bow compass
bow divider
bow down
bow down and worship
bow down before
bow drill
bow dye
bow fast
bow file
bow front
bow hair
bow hand
bow legs
bow light
bow line
bow maker
bow net
bow oar
bow out
bow pen
bow pencil
bow pulpit
bow rudder
bow saw
bow stiffener
bow submission
bow the head
bow thistle
bow tie
bow to
bow to your will
bow trolley
bow wave
bow weight
bow window
bow your head
bow-and-quarter line
bow-back
bow-back chair
bow-backed
bow-beaked
bow-bearer
bow-bell
bow-bending
bow-compass
bow-draught
bow-dye
bow-dyer
bow-hand
bow-houghd
bow-iron
bow-legged
bow-less
bow-necked
bow-net
bow-shaped
bow-spring compass
bow-street
bow-string
bow-window
bow-windowed
bow-wow
bowed down
bowed-down
bowel movement
bowel-hive grass
bowels of compassion
bowels of mercy
bowels of the earth
bower anchor
bower plant
bower-bird
bowhead bird
bogie knife
bowie-knife
bowing acquaintance
bowing and scraping
bowing down
bowing stone
bowl a bosey
bowl a googly
bowl a wrong 'un
bowl along
bowl down
bowl game
bowl over
bowl spirit
bowl-shaped
bowled down
bowled over
bowline bridle
bowline cringle
bowline knot
bowling alley
bowling average
bowling ball
bowling crease
bowling green
bowling on the green
bowling stump
bowman's root
bows on
bows under
bowsprit bed
bowsprit cap
bowsprit shroud
bowstring beam
bowstring bridge
bowstring creeper
bowstring girder
bowstring hemp
bowstring roof
bowstring truss
bowtie antenna
bowwow theory
box barberry
box barrage
box barrow
box beam
box bed
box bill
box bolt
box bridge
box brier
box buggy
box caisson
box calf
box camera
box canyon
box chisel
box chronometer
box chuck
box clip
box cloth
box coat
box column
box cooper
box coot
box cornice
box couch
box coupling
box coverer
box crab
box cutter
box day
box oyster
box pew
box plait
box plaider
box plaidering
box pleat
box poison
box press
box respirator
box room
box scald
box scene
box score
box seat
box set
box settle
box sextant
box shook
box shop
box shutter
box sill
box sleigh
box spanner
box spring
box springs
box stair
box stall
box staple
box stew
box stoop
box stove
box strap
box stretcher
box strike
box string
box tail
box taler
box tenon
box the compass
box the ears
box toe
box tool
box tortoise
box trap
box tree
box truck
box turtle
box up
box valve
box waggon
box wagon
box wrench
box-bordered
box-branding
box-calf
box-cleating
box-covering
box-edged
box-elder aphid
box-elder bug
box-haul
box-leaved
box-locking
box-nailing
box-office
box-plaited
box-shaped
box-strapping
box-top mission
box-tree
box-trimming
box-turning
boxed cornice
boxed in
boxed-in
boxer shorts
boxer's ear
boxer-off
boxer-up
boxing blow
boxing day
boxing glove
boxing gloves
boxing match
boxing ring
boxing shutter
boxing weight
boxing-day
boxing-in
boy bishop
boy friend
boy oh boy
boy scout
boy wonder
boy's love
boy-meets-girl
boyar palm
boyish bob
boys' haircuts
boys' room
brab tree
brace a yard fore and aft
brace and bit
brace bit
brace block
brace box
brace bumpkin
brace comb
brace game
brace head
brace in
brace jack
brace molding
brace pendant
brace piece
brace root
brace table
brace up
brace wire
brace wrench
brace yourself
braced arch
braced frame
bracelet tie
bracelet wood
brachialis anticus
brachio-
brachio-cephalic
brachisto-
brachy-
bracken sickness
bracket capital
bracket clock
bracket crab
bracket foot
bracket fungus
bracket plate
bracket saw
bracket trail
bracketed blenny
bract scale
brad punch
brady-
brag about
brag yourself up
braid bonnet
braid fern
braid wool
braided rope
braided stream
brain box
brain cactus
brain case
brain cavity
brain cell
brain cells
brain child
brain coral
brain damage
brain death
brain disease
brain drain
brain fag
brain fever
brain nerve
brain power
brain sand
brain specialist
brain stem
brain storm
brain surgery
brain teaser
brain trust
brain truster
brain tumor
brain twister
brain vesicle
brain wash
brain washing
brain wave
brain waves
brain-begot
brain-born
brain-breaking
brain-bred
brain-child
brain-cracked
brain-crazed
brain-crumpled
brain-damaged
brain-fever bird
brain-fevered
brain-fretting
brain-injured
brain-purging
brain-smoking
brain-spattering
brain-spun
brain-strong
brain-teaser
brain-tire
brain-trust
brain-wash
brain-washing
brains trust
brainstone coral
brake assembler
brake band
brake bar
brake beam
brake block
brake chain
brake chute
brake clevis
brake compartment
brake cylinder
brake drum
brake examiner
brake fitter
brake fluid
brake gear
brake hanger
brake harrow
brake horsepower
brake hose
brake lever
brake light
brake lining
brake maker
brake meter
brake operator
brake parachute
brake pedal
brake pipe
brake power
brake repairer
brake rod
brake shoe
brake spring
brake stripper
brake tester
brake valve
brake van
brake wheel
brake-testing
brake-van
braking parachute
braking power
braking ratio
bramble finch
bramble rose
bramble shark
bramble worm
bran boil
bran drench
bran duster
bran mash
bran steep
bran tub
bran-deer
bran-new
branch bank
branch banking
branch bar
branch circuit
branch cut
branch depot
branch gap
branch grass
branch herring
branch line
branch mark
branch of knowledge
branch of learning
branch of service insignia
branch of study
branch of the service
branch off
branch office
branch officer
branch out
branch point
branch trace
branch water
branch wilt
branch-bearing
branch-building
branch-charmed
branch-climber
branch-embellished
branch-rent
branch-strewn
branched chain
branches of
branches of medicine
branchial arch
branchial cleft
branchial groove
branching off
branching out
branchio-
branchiostegals ray
brand goose
brand iron
brand-goose
brand-mark
brand-new
brand-newness
brand-spanking new
branding iron
brandy Alexander
brandy and soda
brandy ball
brandy bottle
brandy butter
brandy mazzard
brandy mint
brandy smash
brandy snap
brandy snifter
brandy sour
brandy-bottle
brandy-burnt
brandy-faced
brandy-pawnee
brank-new
brank-ursine
brant bird
brant fox
brant goose
brant snipe
brant-fox
bras-dessus-bras-dessous
brash bearing
brass ankle
brass band
brass buffer
brass buttons
brass choir
brass farthing
brass finisher
brass fitter
brass founder
brass hat
brass instrument
brass knuckles
brass knucks
brass molder
brass pounder
brass quintet
brass section
brass spinner
brass tacks
brass turner
brass wind
brass, the
brass-armed
brass-bold
brass-browed
brass-cheeked
brass-colored
brass-eyed
brass-finishing
brass-fitted
brass-footed
brass-fronted
brass-handled
brass-headed
brass-hilted
brass-hooved
brass-lined
brass-melting
brass-mounted
brass-plated
brass-renting
brass-shapen
brass-smith
brass-tipped
brass-visaged
brass-wind instrument
brass-working
brattice cloth
brave face
brave front
brave person
brave show
brave west winds
brave-horsed
brave-looking
brave-minded
brave-sensed
brave-showing
brave-souled
brave-spirited
brave-spiritedness
braze-jointed
brazen boldness
brazen it out
brazen law of wages
brazen out
brazen through
brazen-barking
brazen-browed
brazen-clawed
brazen-colored
brazen-face
brazen-faced
brazen-facedly
brazen-fisted
brazen-floored
brazen-footed
brazen-fronted
brazen-gated
brazen-headed
brazen-hilted
brazen-hoofed
brazen-imaged
brazen-leaved
brazen-lunged
brazen-mailed
brazen-mouthed
brazen-pointed
brazil nut
brazil wood
brazing alloy
bre kekekekex
breach of contract
breach of faith
breach of friendship
breach of law
breach of promise
breach of public trust
breach of the peace
breach of trust
breach the law
bread and butter
bread and water
bread and wine
bread bag
bread baker
bread beetle
bread bin
bread corn
bread crumb
bread crumber
bread crust
bread cutter
bread flour
bread grain
bread knife
bread line
bread maker
bread mold
bread mould
bread pan
bread plate
bread pudding
bread rack
bread sauce
bread slicer
bread stick
bread stuff
bread toaster
bread tray
bread tree
bread wheat
bread wrapper
bread-and-butter
bread-and-butter model
bread-and-butter pickle
bread-baking
bread-basket
bread-corn
bread-crumb
bread-crumbing
bread-crust bomb
bread-cutting
bread-eating
bread-faced
break jail
break jaws
break joint
break lathe
break line
break loose
break no bones
break of
break of day
break of serve Tennis
break off
break off combat
break on the wheel
break open
break out
break out a flag
break out ballast
break out in a rash
break out in a sweat
break out the anchor
break out with
break pin
break point
break prison
break sheer
break shock
break silence
break step
break the back of
break the back of something
break the bank
break the charm
break the fall
break the habit
break the ice
break the law
break the neck of
break the news
break the pattern
break the peace
break the record
break the seal
break the sound barrier
break the spell
break the thread
break the trail
break through
break to harness
breakfast bell
breakfast food
breakfast knife
breakfast nook
breakfast plate
breakfast room
breakfast set
breakfast table
breakfast time
breaking and entering
breaking down
breaking engine
breaking joint
breaking load
breaking loose
breaking off of negotiations
breaking out
breaking piece
breaking plough
breaking plow
breaking point
breaking strength
breaking up
breaking water
breaking-in
breakoff point
breaks, the
breakthrough weapons
breakup switch
breakup value
breast auger
breast backstay
breast beam
breast board
breast collar
breast cut
breast cylinder
breast drill
breast fast
breast feathers
breast harness
breast hoe
breast hole
breast in
breast kerchief
breast knee
breast laws
breast line
breast milk
breast molding
breast of lamb
breast of veal
breast off
breast pang
breast pocket
breast pump
breast roll
breast stoping
breast strap
breast stroke
breast tea
breast the current
breast the flood
breast the tide
breast the wave
breast timber
breast wall
breast wheel
breast-beam
breast-beater
breast-beating
breast-board
breast-deep
breast-fed
breast-feed
breast-feeding
breast-high
breast-hook
breast-plate
breast-plough
breast-rending
breast-wheel
breasting knife
breastwork log
breath glide
breath group
breath of air
breath of life
breath of your nostrils
breath test
breath-bereaving
breath-blown
breath-giving
breath-stopping
breath-sucking
breath-tainted
breath-taking
breathe again
breathe down your neck
breathe easier
breathe easily
breathe easy
breathe fire and fury
breathe freely
breathe hard
breathe heavily
breathe in
breathe life into
breathe more freely
breathe new life into
breathe out
breathe the air of freedom
breathe vengeance
breathe your last
breather pipe
breathing apparatus
breathing capacity
breathing hole
breathing mark
breathing place
breathing pore
breathing space
breathing spell
breathing stress
breathing time
breathless adoration
breathless awe
breathless impatience
breathless wonder
breathy voice
bred in the bone
bred-in-the-bone
breech action
breech birth
breech bolt
breech delivery
breech mechanism
breech piece
breech pin
breech plug
breech screw
breech sight
breech-loader
breech-loading
breechblock plunger
breeches buoy
breeches money
breeches part
breeches pipe
breeching body
breeching loop
breeching strap
breed in and in
breed true
breeder reactor
breeder tulip
breeding ground
breeding place
breeding plumage
breeding sore
breeds of
breeds of cats
breeds of cattle
breeds of chickens
breeds of dogs
breeds of horses
breeds of sheep
breeds of swine
breeze along
breeze block
breeze box
breeze burner
breeze carrier
breeze concrete
breeze filler
breeze fly
breeze in
breeze into
breeze loader
breeze oven
breeze picker
breeze plant
breeze riddler
breeze tallyman
breeze up
breeze washer
breeze wheeler
breeze-borne
breeze-fanned
breeze-lifted
breeze-shaken
breeze-swept
breeze-wooing
brent goose
brent-new
brepho-
brest summer
bret-full
breu-
breve rest
brevet d'invention
brevi manu
brevi-
brewer's yeast
briar pipe
briar-hopper
bribe broker
bribe money
bribe-devouring
bribe-free
bribery and corruption
bribery oath
bric-a-brac
bric-a-brackery
brick arch
brick archer
brick ax
brick beam
brick burner
brick carrier
brick cheese
brick chipper
brick chisel
brick clay
brick cutter
brick drier
brick dust
brick earth
brick factory
brick hammer
brick hod
brick machine
brick machinist
brick mold
brick molder
brick nog
brick nogging
brick oven
brick paver
brick pointer
brick press
brick presser
brick red
brick sorter
brick stamp
brick stitch
brick tea
brick trimmer
brick trowel
brick wall
brick wheeler
brick-barred
brick-bound
brick-building
brick-built
brick-burning
brick-colored
brick-cutting
brick-drying
brick-dust
brick-dust deposit
brick-earth
brick-field
brick-fronted
brick-grinding
brick-hemmed
brick-kiln
brick-nogged
brick-paved
brick-red
brick-testing
brick-walled
bricklayer's hammer
bricks and mortar
bridal hymn
bridal outfit
bridal saddle
bridal suite
bridal wreath
bride and groom
bride duck
bride price
bride-ale
bride-cup
bride-lace
bride-to-be
bride bar
bridge between
bridge bird
bridge bracket
bridge circuit
bridge coupler
bridge crane
bridge deck
bridge engineer
bridge engineering
bridge fluting
bridge grafting
bridge guard
bridge house
bridge islet
bridge joint
bridge lamp
bridge lock
bridge maker
bridge money
bridge over
bridge passage
bridge pewee
bridge piece
bridge rail
bridge seat
bridge sign
bridge stay
bridge stone
bridge table
bridge tower
bridge train
bridge wall
bridge whist
bridge-house
bridle bar
bridle bridge
bridle cable
bridle chain
bridle gate
bridle hand
bridle iron
bridle joint
bridle part
bridle path
bridle port
bridle rein
bridle road
bridle rod
bridle stricture
bring a case before the bar
bring a case before the court
bring about
bring about a detente
bring accusation
bring action against
bring around
bring back
bring back to the memory
bring bad luck
bring balm to your sorrow
bring before
bring before the public
bring by the lee
bring by the wind
bring charges
bring crashing down
bring down
bring down about your ears
bring down around your ears
bring down the house
bring down the sun
bring down upon
bring down upon one
bring down upon you
bring down upon your head
bring down upon yourself
bring face to face with
bring forth
bring forward
bring glad tidings
bring home the bacon
bring home to
bring in
bring in a verdict
bring in a verdict of not guilty
bring in an indictment
bring in question
bring in the wind
bring into analogy
bring into being
bring into comparison
bring into court
bring into discredit
bring into existence
bring into focus
bring into play
bring into question
bring into relation with
bring into the limelight
bring into the open
bring into the wind
bring into the world
bring into view
bring low
bring near
bring off
bring off the wind
bring on
bring on the wind
bring out
bring out in bold relief
bring out in high relief
bring out in strong relief
bring over
bring pressure to bear upon
bring reason to bear
bring round
bring shame upon
bring suit
bring the anchor home
bring the mind to bear upon
bring through
bring to
bring to a happy issue
bring to a head
bring to a stand
bring to a standstill
bring to a stop
bring to account
bring to an end
bring to an understanding
bring to attention
bring to bay
bring to bear
bring to bear upon
bring to birth
bring to book
bring to completion
bring to effect
bring to fruition
bring to justice
bring to life
bring to light
bring to maturity
bring to mind
bring to naught
bring to nothing
bring to notice
bring to nought
bring to pass
bring to reason
bring to recollection
bring to ruin
bring to tears
bring to terms
bring to test
bring to the bar
bring to the block
bring to the boiling point
bring to the fore
bring to the front
bring to the gallows
bring to trial
bring to view
bring to your notice
bring to your senses
bring together
bring trouble
bring tumbling down
bring under the hammer
bring under your notice
bring up
bring up by hand
bring up for investigation
bring up short
bring up the rear
bring up to date
bring up to date
bring upon
bring upon yourself
bring word
bring you back to earth
bring you down
bring you to your knees
bring you up short
bring-and-buy sale
bringer-up
bringing back to earth
bringing forth
bringing in
bringing into disorder
bringing into question
bringing of charges
bringing out
bringing to book
bringing to fruition
bringing to light
bringing to the ground
bringing together
bringing-up
brise-soleil
brisk market
brisket disease
bristle cell
bristle fern
bristle grass
bristle moss
bristle picker
bristle rat
bristle up
bristle with
bristle worm
bristle-faced
bristle-grass
bristle-pointed
bristle-pointed oat
bristle-stalked
bristle-tailed
bristle-thighed
bristle-thighed curlew
bristle-toothed
bristlecone fir
bristlecone pine
bristlewort family
bristling with arms
bristly foxtail grass
bristly sarsaparilla
britannia metal
britannia ware
british english
brittany spaniel
brittle as glass
brittle fern
brittle star
brittle-star
brix scale
broach post
broach spire
broach to
broach turner
broad accent
broad arrow
broad as the world
broad awake
broad bean
broad church
broad comedy
broad day
broad daylight
broad gage
broad gauge
broad glass
broad grin
broad hatchet
broad hint
broad humor
broad in the beam
broad jump
broad jumper
broad lines
broad mind
broad of beam
broad on the beam
broad on the bow
broad on the quarter
broad pendant
broad reach
broad seal
broad side foremost
broad spectrum
broad-arrow
broad-axe
broad-backed
broad-based
broad-beamed
broad-bean weevil
broad-billed
broad-bladed
broad-blown
broad-bodied
broad-bosomed
broad-bottomed
broad-boughed
broad-bowed
broad-breasted
broad-brimed
broad-built
broad-chested
broad-tired
broad-toed
broad-toothed
broad-wayed
broad-winged
broad-winged hawk
broadbill dipper
broadcast band
broadcast channel
broadcast drama
broadcast journalism
broadcast loop
broadcasting regulation
broaden the mind
broadening the mind
broadleaf tree
broadloom carpet
broadly speaking
broadside aspect
broadside ballad
broadside on
brodtail cloth
broccoli brown
brock-faced
broderie anglaise
brogue hole
broil n
broiler house
broiling sun
broken accents
broken arch
broken chord
broken circuit
broken coal
broken color
broken dose
broken fortune
broken ground
broken heart
broken home
broken in
broken line
broken lot
broken marriage
broken mirror
broken off
broken pediment
broken record
broken speech
broken thread
broken to harness
broken tones
broken voice
broken wind
broken-arched
broken-backed
broken-bellied
broken-check
broken-down
broken-ended
broken-footed
broken-fortuned
broken-handed
broken-headed
broken-hearted
broken-heartedly
broken-heartedness
broken-hipped
broken-hoofed
broken-in
broken-kneed
broken-legged
broken-minded
broken-mouthed
broken-nosed
broken-paced
broken-record
broken-shanked
broken-spirited
broken-winded
broken-winged
broker's agent
broker's loan
brokerage house
brokerage office
brolly-hop
brom-
brome grass
bromic acid
bromide paper
bromine pentafluoride
bromine water
bromo-
bromoil process
bromoil transfer
bronch-
bronchial asthma
bronchial pneumonia
bronchial tube
bronchial tubes
bronchio-
broncho-ronco grass
bronx cheer
bronze age
bronze caster
bronze diabetes
bronze medal
bronze smelter
bronze star medal
bronze-bearing
bronze-bound
bronze-brown
bronze-casting
bronze-clad
bronze-colored
bronze-covered
bronze-foreheaded
bronze-gilt
bronze-gleaming
bronze-golden
bronze-haired
bronze-purple
bronze-shod
bronze-winged
bronze-yellow
bronzed diabetes
bronzed grackle
brood above
brood bud
brood cell
brood chamber
brood gemma
brood mare
brood matron
brood nest
brood over
brood patch
brood pouch
brooder house
broody coop
broody hen
brook bean
brook betony
brook celandine
brook feather
brook lamprey
brook lobelia
brook mink
brook mint
brook no
brook no denial
brook pimpernel
brook runner
brook silk
brook sunflower
brook tongue
brook trout
broom birch
broom brush
broom clover
broom corn
broom crowberry
broom cypress
broom goosefoot
broom grass
broom handle
broom heath
broom hickory
broom maker
broom millet
broom moss
broom palm
broom pine
broom sage
broom sedge
broom straw
broom tea tree
broom toadflax
broom tops
broom tree
broom twine
broom wattle
broom-leaved
broom-sewing
broomcorn millet
broomrape family
broomstick marriage
brother-german
brother-in-arms
brother-in-law
brotherly love
brothers under the skin
brothers-in-law
brougham-landaulet
brought about
brought down
brought in from nowhere
brought low
brought to notice
brought to your knees
brow ague
brow antler
brow point
brow tine
brow-bent
brow-wreathed
brown Bess
brown Betty
brown alga
brown algae
brown as a berry
brown bagging
brown bear
brown belt
brown bent
brown bess
brown betty
brown bill
brown bread
brown bullhead
brown butter
brown canker
brown coal
brown coat
brown creeper
brown george
brown gravy
brown hackle
brown heart
brown hematite
brown hyena
brown lung disease
brown madder
brown man
brown of dusk
brown off
brown out
brown race
brown rat
brown recluse spider
brown rice
brown rot
brown sauce
brown snake
brown soap
brown spot
brown stem rot
brown study
brown sugar
brown swiss
brown thrasher
brown thrush
brown trout
brown-armed
brown-backed
brown-banded
brown-barreled
brown-bearded
brown-berried
brown-colored
brown-complexioned
brown-eyed
brown-eyed Susan
brown-faced
brown-green
brown-haired
brown-headed
brown-leaved
brown-locked
brown-nose
brown-nosed
brown-noser
brown-nosing
brown-purple
brown-red
brown-roofed
brown-sailed
brown-skinned
brown-sleeve
brown-spotted
brown-state
brown-stemmed
brown-strained
brown-tail moth
brown-tailed
brown-washed
browned off
browned-off
brownian motion
brownian movement
browning solution
browning trowel
brownish-red
brownish-yellow
brownstone front
browsing room
bruit about
bruited about
bruiting about
brumbo pulley
brunch coat
brunch-word
brush ape
brush apple
brush aside
brush ax
brush back
brush borer
brush boring
brush box
brush breaker
brush bronzewing
brush broom
brush by
brush case
brush cherry
brush coating
brush cut
brush deal
brush deer
brush discharge
brush drag
brush driller
brush drilling
brush fashioner
brush fiber
brush filler
brush fire
brush hand
brush harrow
brush heap
brush holder
brush hook
brush kangaroo
brush keeper
brush maker
brush myrtle
brush off
brush on paint
brush ore
brush pile
brush polisher
brush puller
brush rabbit
brush sawyer
brush scythe
brush shunt
brush stick
brush stock
brush trimmer
brush turkey
brush turner
brush up
brush up on
brush varnisher
brush wheel
brush wolf
brush yoke
brush-breaking
brush-fire
brush-footed
brush-footed butterfly
brush-off
brush-shaped
brush-tail
brush-tailed
brush-tongued
brush-treat
brusher-off
brusher-up
brushfire war
brussels carpet
brussels lace
brussels sprout
brut champagne
brut concrete
brutal act
brutal fact
brutal task
brute creation
brute force
brute matter
brute strength
bruzz iron
bry-
brys-
bton de commandement
buaze fiber
bubble and squeak
bubble bath
bubble canopy
bubble car
bubble chamber
bubble dance
bubble dancer
bubble glass
bubble gum
bubble hood
bubble nest
bubble over
bubble sextant
bubble shell
bubble tower
bubble tube
bubble up
bubble-and-squeak
bubble-bow
bubbling over
bubbly-jock
bubonic plague
buccinator novi temporis
bucco camphor
buchu camphor
buchu oil
buck ague
buck and wing
buck basket
buck bean
buck fat
buck fever
buck finch
buck fleece
buck for
buck grass
buck in
buck knee
buck law
buck moth
buck off
bucket up
bucket well
bucket wheel
bucket-eyed
bucket-shaped
bucket-shop
buckeye rot
buckhorn brake
buckhorn plantain
buckhorn sight
bucking board
bucking bronco
bucking hammer
bucking kier
bucking plate
buckle bobber
buckle burnisher
buckle chain
buckle coverer
buckle down
buckle down to
buckle finisher
buckle forger
buckle into
buckle maker
buckle mounter
buckle on your armor
buckle presser
buckle rollerer
buckle stamper
buckle to
buckle tongue
buckle tonguer
buckle under
buckle yourself
buckle-beggar
buckler fern
buckler maker
buckler mustard
buckler play
buckler player
buckler-fern
buckler-headed
buckler-shaped
bucks-beard
buckshot pattern
buckthorn brown
buckthorn family
buckwheat cake
buckwheat coal
buckwheat family
buckwheat flour
buckwheat sage
buckwheat tree
buckwheat vine
bucolic caesura
bud brush
bud from
bud grafting
bud gum
bud moth
bud mutation
bud rot
bud sage
bud scale
bud sport
bud stick
bud variation
bud variety
bud vase
buddy sap
buddy system
buddy up
buddy-boy
buddy-buddy
budge bachelor
budge barrel
budge-barrel
budget account
budget items
budget of news
budget plan
budget prices
buenas noches
buenos dias
buff Orpington
buff coat
buff leather
buff nor styte
buff stick
buff top
buff wheel
buff, the
buff-backed
buff-bare
buff-breasted
buff-citrine
buff-colored
buff-orange
buff-tipped
buff-washed
buff-yellow
buffalo apple
buffalo berry
buffalo bird
buffalo bug
buffalo bur
buffalo bush
buffalo carpet beetle
buffalo chips
buffalo cholera
buffalo cloth
buffalo clover
buffalo cod
buffalo currant
buffalo dance
buffalo disease
buffalo fish
buffalo fly
buffalo gnat
buffalo gourd
buffalo grass
buffalo jack
buffalo mange
buffalo moth
buffalo nut
buffalo pea
buffalo robe
buffalo sunfish
buffalo thorn
buffalo tree
buffalo tree hopper
buffalo wallow
buffalo weed
buffalo wolf
buffalo-headed
buffer bar
buffer beam
buffer block
buffer salt
buffer solution
buffer state
buffer therapy
buffer value
buffer zone
buffered aspirin
buffet car
buffet lunch
buffet supper
buffet the waves
buffing apparatus
buffing head
buffing wheel
buffle duck
buffle-headed
buffo bass
buffy coat
bug agaric
bug bomb
bug in the ear
bug juice
bug light
bug off
bug word
bug-eyed
bug-eyes
bug-juice
bug-word
bugger about
bugger off
bugger up
buggered up
bugging machine
buggy cultivator
buggy plow
bugle call
bugle corps
bugle horn
bugle-horn
bugle-weed
bugloss cowslip
bugs on
buhl clock
build a fire
build a house of cards
build castles in the air
build in
build into
build on
build the stately rime
build up
build up a stock
build up an inventory
build your house upon a rock
build-up
builder's knot
building anchor
building and loan association
building block
building blocks
building code
building construction
building contractor
building cradle
building inspector
building iron
building law
building lease
building line
building lot
building material
building mover
building paper
building permit
building rigger
building slip
building society
building surveyor
building trade
building trades
built for comfort
built like a brick shithouse
built on sand
built-in
built-up
built-up mast
bukk-
bulb angle
bulb bar
bulb fly
bulb iron
bulb keel
bulb mite
bulb plate
bulb rectifier
bulb rot
bulb scale
bulb-tee
bulbo-
bulbo-urethral
bulbourethral gland
bulbous bow
bulbous buttercup
bulbous crowfoot
bulbous-rooted
bulge hoop
bulging purse
bulk large
bulk line
bulk mail
bulk modulus
bulk out
bulk up
bulk-material conveyer
bulk-pile
bulkhead deck
bulkhead in
bulkhead line
bulky color
bull account
bull apple
bull bait
bull band
bull bay
bull birch
bull bit
bull block
bull brier
bull buttercup
bull chain
bull cook
bull daisy
bull dike
bull ditcher
bull donkey
bull dust
bull dyke
bull earing
bull fiddle
bull float
bull gear
bull grape
bull grass
bull gun
bull header
bull horn
bull in a china shop
bull kelp
bull-baiting
bull-bearing
bull-beggar
bull-bitch
bull-bragging
bull-browed
bull-dog
bull-dose
bull-faced
bull-fight
bull-frog
bull-fronted
bull-god
bull-grip
bull-headed
bull-horn
bull-horn acacia
bull-like
bull-man
bull-mastiff
bull-mouthed
bull-necked
bull-nosed
bull-nosed bow
bull-roarer
bull-roaring
bull-run
bull-running
bull-terrier
bull-tongue
bull-tongued
bull-tonguing
bull-trout
bull-voiced
bull-whack
bull-whip
bulla tympani
bullace grape
bulldog ant
bulldog bat
bulldog clip
bulldog courage
bulldog edition
bulldog forceps
bulldog pipe
bulldog spear
bulldog tenacity
bulldog wrench
bullen nail
bullen-bullen
bullet bolt
bullet catch
bullet compass
bullet hawk
bullet maker
bullet money
bullet screw
bullet shell
bullet tree
bullet wood
bullet-head
bullet-hole
bullet-resisting glass
bulletin board
bulletproof vest
bullhead kelp
bullhead lily
bullhead shark
bulling bar
bullion balance
bullion fringe
bullion lace
bullion melter
bullion point
bullion smelter
bullion stitch
bullish market
bullish prices
bullit grape
bullnose header
bullnose step
bullnose stretcher
bullnose tool
bullock block
bullock cart
bullock heart
bullock's heart
bullock's-heart
bullshit artist
bully beef
bully tree
bully-off
bully-rock
bulrush millet
bulwark plating
bum a ride
bum around
bum steer
bum's rush
bum's rush, the
bum-
bumble-bee
bumble-puppy
bumblebee coot
bumblebee hawk moth
bumblebee root
bump against
bump ball
bump heads
bump into
bump joint
bump off
bump start
bump up
bump-off
bump-start
bumper bag
bumper beam
bumper car
bumper crop
bumper guard
bumper jack
bumper spring
bumper sticker
bumping bag
bumping hammer
bumping post
bumping race
bumping-off
bumpy ash
bun fight
bun foot
bun ochra
bunch bean
bunch evergreen
bunch grape
bunch grass
bunch light
bunch oyster
bunch peanut
bunch pink
bunch plum
bunch together
bunch up
bunch-backed
bunch-word
buncher resonator
bunchflower family
bunchy top
bunco artist
bunco game
bunco steerer
bunder boat
bundle away
bundle branch
bundle branch block
bundle browning
bundle burial
bundle of His
bundle of isoglosses
bundle off
bundle out
bundle pillar
bundle sheath
bundle up
bundle work
bundle-rooted
bundu bashing
bung start
bung up
bung-full
bungalow tent
bunghole oil
bungup and bilge-free
bunji-bunji
bunk bed
bunk chain
bunk fence
bunker coal
bunker oil
bunko artist
bunko steerer
bunny brown
bunny girl
bunny hop
bunny hug
bunny rabbit
bunsen burner
bunt glut
bunter dog
bunting crow
bunting iron
bunting lark
buntline cloth
bunya-bunya
buon fresco
buon giorno
buona notte
buona sera
buono fresco
buoy boat
buoy up
buoy-tender
buoyancy force
buoyant force
buoyant market
buoyant mine
buoyed up
buoyed-up
buprestid beetle
bur artichoke
bur chervil
bur clover
bur cucumber
bur gherkin
bur grass
bur marigold
bur oak
bur parsley
bur reed
bur sage
bur thistle
bur vervain
bur-reed
buratto lace
burble point
burd-alone
burden adjustment
burden of care
burden of expenditure
burden of proof
burden stitch
burden the memory
burden the mind
burden the mind with
burden with
burdened with debt
burdened with sorrow
burdock grass
bureau company
bureau of investigation
bureau system
bureaucratic delay
burg-bryce
burgess-ship
burgh-english
burghal-penny
burglar alarm
burglary insurance
burial at sea
burial case
burial chamber
burial customs
burial ground
burial jar
burial mound
burial peal
burial place
burial service
burial tree
burial urn
burial vault
burial yard
burial-ground
burial-place
buried in
buried in oblivion
buried in thought
buried treasure
burlesque act
burlesque queen
burlesque show
burlesque theater
burly-boned
burly-faced
burly-headed
burmanna family
burmese cat
burn a hole in your pocket
burn at the stake
burn blue
burn daylight
burn down
burn in
burn in effigy
burn in your pocket
burn off
burn on
burn out
burn the candle at both ends
burn the midnight oil
burn to
burn to a cinder
burn to ashes
burn to death
burn to the ground
burn up
burn up your mortgage
burn with curiosity
burn with love
burn you up
burn your boats
burn your bridges
burn your fingers
burn yourself out
burn-
burn- ing
burn-beat
burn-nose
burn-nose bark
burn-the-wind
burn-up
burned down
burned out
burned to the ground
burned-out
burned-over
burner gas
burner-off
burnet bloodwort
burnet clover
burnet moth
burnet rose
burnet saxifrage
burning at the stake
burning bush
burning ember
burning ghat
burning glass
burning hot
burning issue
burning mirror
burning mountain
burning oil
burning out
burning pain
burning point
burning question
burning rage
burning shame
burning spot
burning up
burning with curiosity
burning with excitement
burning-bush
burning-glass
burning-in tool
burning-wood
burnished-gold
burnishing die
burnt Italian earth
burnt Roman ocher
burnt ale
burnt almond
burnt almonds
burnt carmine
burnt cork
burnt crimson lake
burnt lake
burnt lime
burnt line
burnt ocher
burnt offering
burnt orange
burnt rose
burnt sienna
burnt umber
burnt up
burnt-child
burnt-out
burnt-umber
burnt-up
burp gun
burr chisel
burr-pump
burr-stone
burras-pipe
burrel fly
burrel shot
burrel-fly
burrel-shot
burring machine
burro deer
burro-back
burrow duck
burrow-duck
burrowing blenny
burrowing owl
burrows-town
burst forth
burst in
burst into bloom
burst into flame
burst into laughter
burst into song
burst into tears
burst like a bubble
burst like a thunderbolt
burst like a thunderclap
burst of applause
burst of laughter
burst of light
burst of rain
burst of speed
burst on the ear
burst out
burst out laughing
burst the bubble
burst upon
burst upon one
burst upon the view
burst with
burst with energy
burst with health
burst with laughter
burst-cow
bursting at the seams
bursting charge
bursting of the bubble
bursting out
bursting point
bursting strength
bursting to
bursting with happiness
bursting with health
bury the hatchet
bury the tomahawk
bury your head in the sand
bury yourself in
burying beetle
burying ground
burying place
burying-ground
burying-place
bus bar
bus boy
bus conductor
bus driver
bus girl
bus line
bus rod
bus shelter
bus stop
bush baby
bush basil
bush bean
bush broom
bush canary
bush cat
bush cinquefoil
bush clover
bush coat
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bush cranberry
bush disease
bush doe
bush dog
bush dove
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bush forest
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bush jacket
bush lark
bush lawyer
bush league
bush leaguer
bush lot
bush maple
bush marrow
bush metal
bush morning-glory
bush nut
bush oak
bush oyster
bush parole
bush pea
bush pepper
bush pig
bush pilot
bush poppy
bush pumpkin
bush quail
bush rat
bush rice grass
bush robin
bush scythe
bush shrike
bush sickness
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bush swamp
bush tamarind
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bush trefoil
bush up
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bush warbler
bush wren
bush-fighter
bush-grown
bush-haired
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bush-headed
bush-league
bush-ranger
bush-rope
bush-shrike
bush-skirted
bush-tailed
busheled iron
bushey aster
bushey-bearded
bushey-browed
bushey-eared
bushey-haired
buss the clouds
busser-in
bust a gut
bust hammer
bust in
bust out
bust up
bust your ass
bust-up
bustamente furnace
bustard quail
bustle pipe
busy Lizzie
busy as a beaver
busy as a bee
busy bee
busy signal
busy yourself
busy yourself with
busy-brained
busy-fingered
busy-headed
busy-idle
busy-tongued
but breath and shadow
but for
but go at once
but good
but now
but piece
but then
but what
but-
but-and-ben
but-end
butacaine sulfate
butane lighter
butane stove
butane torch
butch haircut
butcher bird
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butcher linen
butcher paper
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butter-mouthed
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butter-smooth
butter-toothed
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butterfly dam
butterfly damper
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butterfly dock
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butterfly plant
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button borer
button bottomer
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button cactus
button chrysanthemum
button clamper
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button clover
button coverer
button cutter
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button die
button dipper
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button finisher
button flower
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button hole
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button mangrove
button mottler
button pearl
button piercer
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button saw
button scar
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button sedge
button sewer
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button shoe
button shoes
button snakroot
button snakeweeds
button sorter
button stamper
button stick
button strike
button switch
button thistle
button tree
button turner
button up
button up your pockets
button willow
button worker
button your lip
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button-sewing
button-shaped
button-slitting
button-tufting
buttoner-up
buttonhead rivet
buttonhole stitch
buttonwood shrub
buttress pier
buttress root
buttress thread
buttress tower
butts and bounds
butty lark
butyl alcohol
butyl aldehyde
butyl group
butyl oxalate
butyl radical
butyl-chloral
butylene group
butylene radical
butyr-
butyric acid
butyric ether
butyro-
butyryl group
butyryl radical
buy a piece of
buy a pig in a poke
buy a share of
buy and sell
buy at a bargain
buy at cost
buy at wholesale prices
buy back
buy boat
buy dirt cheap
buy for a mere nothing
buy for a song
buy for nickels and dimes
buy in
buy in futures
buy into
buy it
buy off
buy on credit
buy on the cuff
buy on the installment plan
buy out
buy time
buy up
buyer four
buyer resistance
buyer ten
buyer's strike
buyers' market
buyers' strike
buying and selling
buying in
buying option
buying power
buying right
buying up
buzz about
buzz along
buzz bomb
buzz off
buzz planer
buzz saw
buzz session
buzz track
buzz word
buzzard clock
buzzard curlew
buzzard grass
by a fluke
by a great deal
by a hair
by a jot
by a long chalk
by a long shot
by a long way
by a nose
by a piece of luck
by a side door
by a side wind
by a strong arm
by a whit
by accident
by acclamation
by agent
by airmail
by airplane
by all manner of means
by all means
by all odds
by an ace
by an iota
by and by
by and large
by any chance
by any manner of means
by any means
by any possibility
by auction
by authority of
by birth
by bits and pieces
by brute force
by bus
by cable
by cards
by catches
by categories
by chance
by choice
by command
by common consent
by common report
by comparison with
by consensus
by contraries
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by degrees
by design
by destiny
by dint of
by disposition
by divisions
by ear
by easy stages
by election
by express
by eyeball
by fair means or foul
by far
by fits
by fits and starts
by foot
by force
by force of arms
by force of habit
by forced marches
by freight
by general consent
by good fortune
by guess and by God
by half
by half measures
by halves
by hand
by hazard
by heart
by his lane
by hit and miss
by hook or by crook
by hook or crook
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by law
by leaps and bounds
by little and little
by long odds
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by nature
by necessity
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by preference
by proxy
by quarters
by rail
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by reason of that
by reflex
by remote control
by request
by return mail
by right
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by rote
by rule of thumb
by sea
by sections
by sight
by skips
by slow degrees
by snatches
by some means
by special delivery
by speech or action
by stages
by stealth
by steamer
by storm
by stress of
by suffrage
by surprise
by telegraph
by temperament
by the act of
by the agency of
by the aid of
by the board
by the book
by the by
by the bye
by the clock
by the good offices of
by the lee
by the logic of character
by the logic of temperament
by the numbers
by the people
by the rules of logic
by the run
by the same sign
by the same token
by the side of
by the skin of your teeth
by the stern
by the sweat of your brow
by the way
by the way of
by the wind
by this time
by transfer
by trial and error
by tricks
by trolley
by turns
by two
by types
by use of
by virtue of
by virtue of mind-set
by vote
by water
by way of
by way of example
by way of hypothesis
by way of opposition
by way of parenthesis
by what means
by what mode
by whatever name
by wholesale
by word of mouth
by your leave
by your lonesome
by your own petard
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by-alley
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by-and-by
by-and-large
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bygone times
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bypass condenser
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bypaths and crooked ways
byre-man
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c clef
c ration
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c'est bien
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cactus dahlia
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cactus geranium
cactus wren
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cakes and ale
caking coal
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calabar bean
calabar-bean
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calamity howler
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calculus of variations
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calendar maker
calendar month
calendar of bills
calendar stone
calendar watch
calendar year
calendar-making
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calf feed
calf leather
calf love
calf's brains
calf's head
calf's liver
calf's tongue
calf's-foot
calf's-foot jelly
calf-skin
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caliber compass
calibrated scale
calibrating circuit
calibrating terminal
calibrating unit
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calico aster
calico bass
calico bug
calico bush
calico cat
calico clam
calico crab
calico flower
calico pony
calico printing
calico scale
calico tree
california laurel
california poppy
california rosebay
caliper compass
caliper gauge
caliper rule
caliph willow
calisaya bark
calk weld
call a break
call a halt
call a halt to
call a recess
call a spade a spade
call a strike
call all bets off
call an intermission
call attention to
call away
call back
call back yesterday
call bell
call bird
call box
call card
call down
call down curses on the head of
call down evil upon
call for
call for help
call forth
call girl
call heads or tails
call heaven to witness
call house
call in
call in question
call into being
call into existence
call into play
call into question
call it a day
call it quits
call letters
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call mark
call market
call money
call names
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calling a spade a spade
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calling card
calling crab
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calling to the mind's eye
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calliper rule
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calm as a mill pond
calm before the storm
calm disposition
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caming bus
camping ground
camping site
campo pea
campo santo
campos santos
campus shoes
campus university
camra stylo
can buoy
can burnisher
can calm
can capper
can carrier
can coverer
can crimper
can do
can faucet
can filler
can floater
can frame
can header
can hook
can it
can it be
can jacket
can key
can liner
can not
can of worms
can opener
can plug
can press
can sealer
can solderer
can sterilizer
can such things be
can system
can washer
can you beat that
can you feature that
can't be avoided
can't be helped
can't complain
can't help
can't keep from
can-beading
can-boxing
canal-bone
canal-built
cananga oil
canard sauvage
canary bird
canary creeper
canary flower
canary glass
canary grass
canary moss
canary nut
canary seed
canary stone
canary vine
canary weed
canary wine
canary wood
canary yellow
canary-bird
canary-bird flower
canary-yellow
canarybird flower
canarybird vine
cancel out
canceled check
canceled type
cancellation clause
cancellation law
cancer cell
cancer eye
cancer jalap
cancer parasite
cancer stick
cancrinite-syenite
canerum oris
candelabra lamp holder
candelabra plant
candelabrum tree
candelilla wax
candid camera
candid photograph
candid photography
candied apple
candle alder
candle anemone
candle auction
candle bearer
candle cactus
candle case
  candle end
  candle ends
  candle fly
  candle gleam
  candle grease
  candle hour
  candle larkspur
  candle lumen
  candle mold
  candle molder
  candle paper
  candle plant
  candle power
  candle rush
  candle shade
  candle snuff
  candle snuffer
  candle tree
  candle tube
  candle wicking
  candle-beam
  candle-bearing
  candle-branch
  candle-dipper
  candle-end
  candle-foot
  candle-holder
  candle-hour
  candle-lighter
  candle-meter
  candle-rent
  candle-shaped
  candle-snuff
  candle-snuff fungus
  candle-tapering
  candle-tree
  candle-waster
  candle-wood
  candleberry bark
  candleberry myrtle
  candleberry tree
  candlenut oil
  candlestick lily
  candlewick bedspread
  candlewood pine
  candy cane
  candy carrot
candy corn  
candy grass  
candy kitchen  
candy pull  
candy pulling  
candy store  
candy stripe  
candy striper  
candy thermometer  
candy-striped  
cane apple  
cane ash  
cane blight  
cane borer  
cane bottoming  
cane brimstone  
cane cactus  
cane chair  
cane crusher  
cane cutter  
cane field  
cane fruit  
cane gall  
cane grass  
cane gun  
cane killer  
cane knife  
cane mill  
cane osier  
cane palm  
cane piece  
cane press  
cane rat  
cane reed  
cane rush  
cane rust  
cane seat  
cane seating  
cane splicer  
cane sugar  
cane syrup  
cane trash  
cane weaver  
cane webbing  
cane withy  
cane-backed  
cane-bottomed  
cane-phorus
cane-seated
canebrake rattler
canebrake rattlesnake
canella alba
canella bark
canella-bark family
cangica-wood
canicola fever
canicular days
canine appetite
canine distemper
canine leptospirosis
canine madness
canine tooth
canine typhus
canis major
canis minor
canister shot
canker bloom
canker blossom
canker lettuce
canker rash
canker rose
canker sore
canker violet
canker-bit
canker-bitten
canker-eaten
canker-hearted
canker-mouthed
canker-toothed
cankerworm of care
canna family
canna-down
cannabis indica
cannabis resin
canned foods
canned goods
canned heat
canned show
cannel coal
cannel-bone
cannon ball
cannon bit
cannon bone
cannon cracker
cannon curl
cannon fodder
cannon metal
cannon off
cannon pinion
cannon shot
cannon stove
cannon-ball
cannon-ball fruit
cannon-ball tree
cannon-proof
cannon-royal
cannon-shot

cannonball express
cannot choose but
cannot do otherwise
cannot help but
canoe adz
canoe birch
canoe burial
canoe cedar
canoe gum
canoe tent
canoe yacht
canoe yawl
canon bit
canon form
canon law
canon lawyer
canon regular
canonical age
canonical books
canonical form
canonical hour
canonical hours
canonical prayers
canonical writings
canonized mortal
canons regular
canopic jar
canopy of heaven
canopy switch
cant across
cant block
cant body
cant chisel
cant dog
cant file
cant frame
cant hook
cant molding
cant purchase
cant ribband
cant round
cant spar
cant strip
cant timber
canted column
canterbury bell
cantharid luster
cantharides cerate
cantilever bridge
cantilever foundation
cantilever spring
canting arms
canting coat
canting hypocrite
canting quoin
cantle bar
canto fermo
cantocanto fermo
canton blue
canton crepe
canton flannel
canton ginger
cantorial side
cantus figuratus
cantus firmus
cantus planus
canvas baster
canvas board
canvas dam
canvas dresser
canvas maker
canvas primer
canvas quilter
canvas shoe
canvas stitch
canvas stitcher
canvas stitching
canvas work
canvas worker
canvas-back
canvas-covered
canvasback duck
canyon gooseberry
canyon grape
canyon live oak
canyon wind
canyon wren
cap and bells
cap and gown
cap bolt
cap cell
cap cloud
cap flashing
cap fungus
cap gun
cap in hand
cap jib
cap maker
cap nut
cap octavo
cap of darkness
cap of dignity
cap of estate
cap of maintenance
cap paper
cap piece
cap pistol
cap rhymes
cap rock
cap screw
cap scuttle
cap spinning
cap square
cap the climax
cap verses
cap-a-pie
cap-case
cap-flash
cap-in-hand
cap-paper
cap-stone
capable of
capable of life
capable of living
capable of solution
capable of survival
capacitive coupling
capacitive reactance
capacitor microphone
capacitor motor
capacitor speaker
capacity coupling
capacity factor
capacity for
capacity load
capacity load factor
capacity reactance
cape chisel
cape cod cottage
cape crawfish
cape doctor
cape gooseberry
cape parvum
cape-merchant
caper berry
caper family
caper sauce
caper spurge
caper tea
caper tree
caper-cut
capeseed oil
capful of wind
capillary action
capillary analysis
capillary attraction
capillary capacity
capillary chemistry
capillary electrometer
capillary potential
capillary pyrites
capillary tube
capillary water
capital account
capital accounts
capital asset
capital assets
capital bonus
capital budget
capital city
capital crime
capital expenditure
capital fellow
capital gain
capital gains
capital gains distribution
capital gains tax
capital goods
capital investment
capital joke
capital levy
capital loss
capital market
capital operation
capital punishment
capital ship
capital stock
capital stock n
capital structure
capital style
capital styles
capital sum
capital surplus
capital transfer tax
capitalist economy
capitalistic economy
capitalistic system
capitalization issue
capitalize on
capitate bone
capitation grant
capitation tax
capo taste
capoor cutchery
cappa magna
capped elbow
capped hock
capped pawn
capping fee
capping plane
capple-faced
capric acid
capricorn beetle
caprifig wasp
caproic acid
caprylic acid
capsicum wool
capsizing moment
capstan bar
capstan bolt
capstan lathe
capstan screw
capstan table
capstan tool rest
capstan-headed
capsuli-
captain ball
captain general
captain glass
car of Jagannath
car of Juggernaut
car park
car pool
car rail
car replacer
car retarder
car ride
car sealer
car service
car shed
car sickness
car starter
car step
car track
car wash
car wheel
car wheeler
car-borne
car-dumping
car-mile
car-replacing
car-tunnel kiln
caramel cream
caramel cutter
carap nut
carap oil
carap tree
carap wood
carapa nut
carapa oil
carapa tree
carapa wood
carat grain
carat grains
caravan boiler
caraway oil
caraway seed
caraway seeds
caraway-seed fern
carb-
carbamate insecticide
carbamic acid
carbazotic acid
carbo-
carbo-hydrate
carbocyclic compound
carbolic acid
carbolic oil
carbon 14
carbon arc
carbon bisulfide
carbon bisulphide
carbon black
carbon copy
carbon cycle
carbon dating
carbon diamond
carbon dichloride
carbon dioxide
carbon dioxide snow
carbon disulfide
carbon disulphide
carbon fibre
carbon flame
carbon knock
carbon lamp
carbon light
carbon microphone
carbon monoxide
carbon oxide
carbon oxychloride
carbon paper
carbon paper n
carbon pencil
carbon point
carbon process
carbon silicide
carbon spot
carbon star
carbon steel
carbon sulphochloride
carbon telephone
carbon tet
carbon tetrachloride
carbon tissue
carbon transfer
carbon transmitter
carbon trichloride
carbon tube
carbon- dating
carbon-14 dating
carbon-dioxide foam
carbon-dioxide recorder
carbon-dioxide snow
carbonated water
carbonic acid
carbonic acid gas
carbonic anhydride
carbonic-acid gas
carbonium ion
carbonization process
carbonyl chloride
carbonyl group
carbonyl radical
carborundum cloth
carboxyl group
carboxyl radical
carboxylic acid
carbro process
carbureted-hydrogen gas
carburetor altitude control
carcass beef
carcass flooring
carcass roofing
carcin-
carcinogenic substance
card bends
card brusher
card case
card catalog
card catalogue
card cheating
card cleaner
card cloth
card clothier
card clothing
card compass
card cutter
card doffer
card drawer
card dresser
card end
card ender
card feeder
card fettler
card field
card file
card filler
card game
card games
card gatherer
card grinder
card index
card ledger
card magnetic compass
card measurer
card parer
card punch
card reader
card roller
card setter
card sorter
card strip
card stripper
card table
card teasel
card tenter
card thistle
card tray
card up your sleeve
card vote
card voting
card winder
card wire
card writer

card-carrying

card-carrying Communist
card-carrying member
card-counting

card-cut
card-cutting

card-devoted

card-index

card-perforating

card-printing

card-setting machine

card-sorting

cardamom oil

carder bee

cardi-
cardiac arrest

cardiac cycle

cardiac epilepsy

cardiac glucoside

cardiac glycoside

cardiac hormone

cardiac infarction

cardiac insufficiency

cardiac neurosis

cardiac output
cardiac pacemaker
cardiac shock
cardiac stenosis
cardiac tamponade
cardiac thrombosis
cardigan jacket
cardigan sweater
cardinal archbishop
cardinal beetle
cardinal bird
cardinal bishop
cardinal climber
cardinal cloth
cardinal deacon
cardinal dean
cardinal fish
cardinal flower
cardinal grosbeak
cardinal humour
cardinal number
cardinal numeral
cardinal point
cardinal points
cardinal priest
cardinal red
cardinal system
cardinal virtue
cardinal virtues
cardinal vowel
cardinal's hat
cardinal-bishop
cardinal-deacon
cardinal-flower
cardinal-priest
cardinal-red
carding hair
carding machine
carding thistle
carding wool
cardio-
cardio-aortic
cardio-inhibitory
cardiogenic shock
cardioid microphone
cardioid microcardiovascular disease
cards and spades
care a snap
care a snap of your fingers for
cargo lighter
cargo liner
cargo mast
cargo mill
cargo plane
cargo reflector
cargo ship
cargo transport
cargo worker
caribou moss
caricature plant
caring fair
carking care
carl hemp
carline thistle
carline wife
carload lot
carload rate
carmine crabapple
carmine lake
carnage trade
carnal abuse
carnal delight
carnal desire
carnal knowledge
carnal nature
carnal passion
carnal-minded
carnal-mindedness
carnation grass
carnation red
carnation rose
carnation rust
carnation-red
carnauba wax
carnegie unit
camelian red
carnival glass
carnival lace
carnosocarob bean
carob brown
carob gum
carob tree
caroline hat
carom ball
carom into
carotid artery
carpet mill
carpet moth
carpet needle
carpet opener
carpet picker
carpet pink
carpet planner
carpet printer
carpet printing
carpet rags
carpet renovator
carpet repairer
carpet rod
carpet sewer
carpet shark
carpet shell
carpet shredder
carpet slipper
carpet snake
carpet sorter
carpet stitch
carpet stretcher
carpet sweeper
carpet tack
carpet thread
carpet twisting
carpet weaver
carpet weaving
carpet wool
carpet yarn
carpet-bag
carpet-bagger
carpet-covered
carpet-cut
carpet-knight
carpet-smooth
carpet-sweeper
carpetweed family
carpo-
carpo-olecranal
carriage apron
carriage blind
carriage body
carriage bolt
carriage boot
carriage bow
carriage bridge
carriage builder
carriage building
carriage cleaner
carriage cleaning
carriage company
carriage coupler
carriage coupling
carriage dog
carriage drive
carriage driver
carriage entrance
carriage forward
carriage free
carriage gate
carriage guard
carriage harness
carriage head
carriage horse
carriage house
carriage hub
carriage iron
carriage ironer
carriage joiner
carriage lady
carriage lamp
carriage lampman
carriage maker
carriage making
carriage paid
carriage painter
carriage piece
carriage pole
carriage porch
carriage rider
carriage road
carriage searcher
carriage seat
carriage setter
carriage shackle
carriage shaft
carriage shed
carriage spring
carriage springer
carriage step
carriage strap
carriage top
carriage trade
carriage trimmer
carriage trimming
carriage washer
carriage way
carriage wheel
carriage works
carriage wrench
carriage-free
carrick bend
carrick bitt
carrick bitts
carrick head
carried away
carried by acclamation
carrier amplifier
carrier bag
carrier courier
carrier fighter
carrier frequency
carrier pigeon
carrier ring
carrier shell
carrier snail
carrier suppression
carrier wave
carrier-based plane
carrier-current system
carrier-free
carrier-pigeon
carriers of
carrion beetle
carrion buzzard
carrion crow
carrion flower
carrion fly
carrion fungus
carrion hawk
carron oil
carrot beetle
carrot eating
carrot family
carrot fern
carrot orange
carrot pudding
carrot red
carrot rust fly
carrot soft rot
carrot tree
carrot-colored
carrot-head
carrot-headed
carrot-pated
carrot-shaped
carrot-top
carry a card
carry a tune
carry all before one
carry all before you
carry arms
carry authority
carry away
carry back
carry back in recollection
carry bag
carry by storm
carry coals to Newcastle
carry conviction
carry forward
carry in your thoughts
carry into effect
carry into execution
carry it
carry lee helm
carry off
carry on
carry on a business
carry on a conversation
carry on a propaganda
carry on a trade
carry on an inquiry
carry on business
carry on hostilities
carry on over
carry on something scandalous
carry on war
carry on your books
carry out
carry out the anchor
carry over
carry sail
carry the
carry the ball
carry the banner of
carry the day
carry the mail
carry through
carry to
carry to completion
carry to excess
carry too far
carry too much sail
carry weather helm
carry weight
carry you off your feet
carry young
carry your point
carry your thoughts back
carry yourself
carry-all
carry-back
carry-forward
carry-in
carry-log
carry-on
carry-over
carry-tale
carrying a fetus
carrying an embryo
carrying arms
carrying capacity
carrying charge
carrying cost
carrying distance
carrying out
carrying place
carrying through
carrying trade
carrying-on
carrying-out
carryings-on
carse deposit
cart aver
cart away
cart driver
cart horse
cart ladder
cart leather
cart maker
cart off
cart road
cart rope
cart track
cart wheel
cart whip
cart-rutted
cart-track plant
cart-wheel
cartage contractor
carte blanche
carte d'entree
carte de visite
carte du jour
carte-de-visite
cartel ship
cartes blanches
cartes de visite
cartes du jour
cartesian coordinate
cartilage bone
cartilage cell
cartilage pit
cartilaginous fish
cartilaginous quittor
carton of cigarettes
carton-pierre
cartridge annealer
cartridge bag
cartridge belt
cartridge blocker
cartridge box
cartridge brass
cartridge buff
cartridge case
cartridge clip
cartridge filler
cartridge fuse
cartridge gauge
cartridge heater
cartridge loader
cartridge loading
cartridge maker
cartridge making
cartridge paper
cartridge pen
cartridge primer
cartridge priming
carve out
carve up
carve your way
carvel joint
carvel work
carvel-built
carvel-planked
carving fork
carving knife
cary-
caryo-
casaba melon
casagha pine
casca bark
cascade amplification
cascade connection
cascade control
cascade converter
cascade method
cascade screen
cascade system
cascade transformer
cascade-connect
cascara amarga
cascara buckthorn
cascara sagrada
cascarilla bark
cascarilla oil
case bay
case binding
case bolt
case bottle
case card
case count
case ending
case furniture
case glass
case goods
case grammar
case gun
case hammer
case harden
case hardening
case history
case in point
case in question
case knife
case law
case lawyer
case made
case method
case of need
case of nerves
case oil
case phrase
case record
cash in hand
cash in on
cash in your checks
cash in your chips
cash journal
cash letter
cash line
cash money
cash on delivery
cash on the barrelhead
cash on the nail
cash payment
cash price
cash purchase
cash railway
cash ratio
cash register
cash remittance
cash reserves
cash sale
cash store
cash supply
cash surrender value
cash tenant
cash terms
cash up
cash value
cash-and-carry
cash-book
cash-refund annuity
cashed up
cashew apple
cashew bird
cashew family
cashew lake
cashew nut
cashier's check
cashmere shawl
cashmere sweater
casing cutter
casing dog
casing head
casing knife
casing nail
casing shoe
casing spear
casing splitter
casing spool
casing swab
casing-head gas
casing-head gasoline
casing-in
casinghead gas
casino pink
cask marker
cask-shaped
cassava wood
casse paper
casse-tete
casserole fish
cassia bark
cassia bud
cassia fistula
cassia flask
cassia lignea
cassia nut
cassia oil
cassia pod
cassia pods
cassia pulp
cassia tree
cassia-bark tree
cassia-stick tree
cassie paper
cassiopeia's chair
cassowary tree
cast a ballot
cast a glance
cast a gloom over
cast a gloom upon
cast a horoscope
cast a laggen-gird
cast a nativity
cast a pall upon
cast a reproach upon
cast a shadow
cast a slur on
cast a slur upon
cast a spell
cast a traverse
cast about
cast about for
cast anchor
cast aside
cast aspersions on
cast at
cast away
cast back
cast blame upon
cast coquettish glances
cast down
cast envious eyes
cast forth
cast gear
cast in a different mold
cast in prison
cast in the eye
cast in the same mold
cast in your lot with
cast in your teeth
cast into hell
cast iron
cast light upon
cast loose
cast lots
cast naked upon the naked earth
cast of characters
cast of countenance
cast of the dice
cast off
cast on
cast out
cast out devils
cast pearls before swine
cast plastic
cast plow
cast reflection upon
cast reflections on
cast reproach upon
cast scrap
cast sheep's eyes at
cast steel
cast the evil eye
cast the eyes back
cast the eyes on
cast the eyes over
cast the eyes upon
cast the first stone
cast the gorge
cast the lead
cast their shadows before
cast to the dogs
cast to the winds
cast up
cast up accounts
cast your bread upon the waters
cast your eye
cast your eyes down
cast your fortune
cast your hook
cast your net
cast your vote
cast your vote for
cast-back
cast-by
cast-iron
cast-iron-plant
cast-me-down
cast-off
cast-steel
cast-weld
castana nut
caste mark
caste-ridden
castellated beam
castellated nut
caster sugar
caster-off
castile soap
casting away
casting bottle
casting box
casting couch
casting counter
casting director
casting down
casting line
casting lots
casting net
casting on
casting table
casting voice
casting vote
casting wax
casting weight
casting wheel
casting your ballot
castle ditch
castle earth
castle gate
castle gilliflower
castle in Spain
castle in spain
castle in the air
castle in the skies
castle in the sky
castle nut
castle top
castle town
castle wall
castle-builder
castle-building
castle-built
castle-buttressed
castle-crowned
castle-guard
castle-guarded
castoff skin
castor aralia
castor bean
castor cake
castor gray
castor oil
castor pomace
castor seed
castor sugar
castor tree
castor wheel
castor-bean
castor-bean meal
castor-bean tick
castor-oil plant
castration complex
castrator mine
casual acquaintance
casual clothes
casual discovery
casual dress
casual house
casual laborer
casual remark
casual suit
casual ward
casual water
casualty insurance
casualty list
casualty ward
casualty-evacuation plane
casus belli
cat and dog
cat and mouse
cat and rat
cat around
cat back
cat beam
cat block
cat brier
cat burglar
cat castle
cat chain
cat cracker
cat cradle
cat davit
cat distemper
cat fever
cat fit
cat flea
cat food
cat grape
cat hair
cat ham
cat haw
cat hip
cat hole
cat hook
cat house
cat ice
cat ladder
cat man
cat nap
cat o'mountain
cat owl
cat pea
cat pine
cat plague
cat purchase
cat rig
cat salt
cat schooner
cat shark
cat silver
cat sleep
cat snake
cat spruce
cat squirrel
cat stopper
cat strip
cat suit
cat tackle
cat the anchor
cat thyme
cat tree
cat typhoid
cat whisker
cat yawl
cat's cradle
cat's ear
cat's foot
cat's paw
cat's tail
cat's whisker
cat's whiskers
cat's-claw
cat's-cradle
cat's-ear
cat's-eye
cat's-eyes
cat's-feet
cat's-foot
cat's-head
cat's-paw
cat's-tail
cat's-tail speedwell
cat-a-mountain
cat-and-dog
cat-and-dog life
cat-and-dog weather
cat-and-doggish
cat-bed
cat-built
cat-chop
cat-clover
cat-eyed
cat-fish
cat-foot
cat-hammed
cat-harpin
cat-harpings
cat-head
cat-hole
cat-lap
cat-like
cat-locks
cat-o'-mountain
cat-o'-nine-tails
cat-o-nine-tails
cat-rigged
cat-scratch disease
cat-scratch fever
cat-stick
cat-train
cat-whistles
cat-witted
cata-
cataleptic hypnosis
catalog buying
catalog card
catalog goods
catalog selling
catalogue raisonn
catalogue raisonne
catalpa sphinx
catalytic agent
catalytic converter
catalytic cracker
catamenial discharge
catapult flight
catapult fruit
cataract bird
catarrhal fever
catarrhal inflammation
catarrhal pneumonia
catastrophe hazard
catastrophe reserve
catastrophe risk
catastrophic change
catatonic schizophrenia
catatonic stupor
catawba rhododendron
catawba rose bay
catawba tree
catbird grape
catbird seat
catch a Tartar
catch a crab
catch a glimpse of
catch a likeness
catch a lobster
catch a ride
catch a smell of
catch a train
catch a turn
catch a wink
catch as catch can
catch asleep at the switch
catch at
catch at straws
catch basin
catch boom
catch box
catch cold
catch colt
catch crop
catch cropping
catch drain
catch fire
catch flat-footed
catch hell
catch hold of
catch in
catch in a trap
catch in the act
catch it
catch it in the neck
catch line
catch meadow
catch napping
catch off base
catch off side
catch off your guard
catch off-guard
catch on
catch on fire
catch on to
catch out
catch phrase
catch pit
catch points
catch question
catch red-handed
catch short
catch siding
catch sight of
catch stitch
catch the attention
catch the drift
catch the ear
catch the eye
catch the flame
catch the infection
catch the scent of
catch the thoughts
caterpillar plant
caterpillar tractor
caterpillar tread
catfoot poplar
cath-
catharine wheel
cathead chuck
cathead stopper
cathartic energy
cathedral builder
cathedral ceiling
cathedral chimes
cathedral church
cathedral close
cathedral dome
cathedral glass
cathedral music
cathedral service
cathedral tower
cathedral town
cathedral walk
cathedral-like
catherine wheel
catheter fever
cathode current
cathode dark space
cathode drop
cathode glow
cathode luminescence
cathode particle
cathode ray
cathode rays
cathode-ray oscillograph
cathode-ray oscilloscope
cathode-ray tube
cathodic protection
cathodo-luminescent
catholico-
cation detergent
cation-active
cationic detergent
catjang pea
cats and dogs
cattail family
cattail flag
cattail fungus
cattail grass
cattail millet
cattail rush
cattle boat
cattle breeder
cattle breeding
cattle buyer
cattle camp
cattle car
cattle crossing
cattle dealer
cattle dehorner
cattle dog
cattle drover
cattle egret
cattle fancy
cattle farm
cattle farmer
cattle feed
cattle feeder
cattle feeding
cattle float
cattle floater
cattle grub
cattle guard
cattle horn
cattle leader
cattle lifting
cattle loader
cattle louse
cattle mange
cattle marker
cattle marking
cattle pass
cattle pen
cattle plague
cattle pump
cattle raising
cattle ranch
cattle range
cattle run
cattle rustler
cattle rustling
cattle scab
cattle ship
cattle shipper
cattle show
cattle stall
cattle station
cattle stealing
cattle steamer
cattle tender
cattle thief
cattle tick
cattle trade
cattle trader
cattle train
cattle truck

...
caulo-
causa causans
causa finalis
causa sine qua non
causal body
causal glance
causal sequence
causal treatment
cause and effect
cause celebre
cause cfbre
cause dislike
cause for alarm
cause in court
cause list
cause pain
cause the mind to stray
cause the mind to wander
cause to
cause to believe
cause to go out of your way
cause to resign
cause trouble
cause trouble for
cause unpleasantness
cause vertigo
cause-and-effect
caused by
causeway grass
causing cause
cautic alcohol
cautic baryta
cautic critic
cautic curve
cautic lime
cautic potash
cautic remark
cautic soda
cautic surface
caution card
caution light
caution money
 cavalier battery
cavalier projection
cavalier servant
cavalier servente
cavalier servitude
cavaliere servente
cavaliere serventi
cavalry bone
cavalry horse
cavalry saddle
cavalry tactics
cavalry twill
cave art
cave bear
cave beetle
cave canem
cave cricket
cave drawing
cave dweller
cave dwelling
cave earth
cave fish
cave hunter
cave hyena
cave in
cave lion
cave man
cave of Trophonius
cave of despair
cave painting
cave pearl
cave period
cave rat
cave right
cave tomb
cave-guarded
cave-in
cave-keeping
cave-lodged
cave-loving
caveat emptor
cavi-relievi
cavi-rilievi
caviar to the general
caviare to the general
caving system
cavity block
cavity magnetron
cavity resonator
cavity source
cavity wall
caviuna wood
cavo-relievo
cavo-relievos
cell body
cell bridge
cell cavity
cell charger
cell cleavage
cell count
cell cup
cell division
cell doctrine
cell family
cell house
cell kernel
cell membrane
cell multiplication
cell nest
cell nucleus
cell organ
cell physiology
cell plasm
cell plate
cell product
cell proliferation
cell sap
cell substance
cell tester
cell theory
cell wall
cell-blockade
cell-like
cell-shaped
cellar book
cellar door
cellar pipe
cellar sash
cellophane tape
cellular kite
cellular tissue
cellulo-
cellulocutaneous plague
celluloid collar
cellulose acetate
cellulose ether
cellulose flour
cellulose nitrate
cellulose plastic
cellulose triacetate
cellulose xanthate
celo-navigation
center on
center punch
center reamer
center round
center seal
center spider
center spread
center square
center staff
center tester
center valve
center wheel
center zone
center-fire
center-freeze system
center-of-pressure coefficient
center-sawed
center-second
centerboard damper
centerboard trunk
centered dot
centerhole guitar
centering machine
centering square
centi-
centigrade scale
centigrade thermal unit
centigrade thermometer
centimeter-gram
centimeter-gram-second
centimetre-gram-second
centimetre-gramme-second
centipede grass
centipede legs
centipede locomotive
centipede plant
centr-
central administration
central angle
central apparatus
central bank
central body
central city
central cylinder
central dogma
central eclipse
central heating
central limit theorem
central moment
central nervous system
central office
central position
central processing unit
central projection
central reserve
central school
central station
central sulcus
central tendency
central time
central-fire
centralized school
centrally heated
centre bit
centre forward
centre half
centre of curvature
centre of gravity
centre of mass
centre of pressure
centre punch
centre section
centre spread
centre three-quarter
centre-fire
centred dot
centri-
centrifugal action
centrifugal box
centrifugal casting
centrifugal force
centrifugal pot
centrifugal pump
centrifugal spinning
centripetal action
centripetal force
centro-
centum languages
centuple calorie
century aloe
century plant
cephal-
cephalic index
cephalo-
cephalopelvic disproportion
ceramic cartridge
ceramic engineer
ceramic engineering
ceramic material
ceramic microphone
ceramic pickup
ceramic ware
cerat-
cerato-
cercis-leaf
cereal bowl
cereal plant
cerebellar hemispheres
cerebello-olivary
cerebr-
cerebral accident
cerebral cortex
cerebral dominance
cerebral hemisphere
cerebral hemispheres
cerebral meningitis
cerebral palsy
cerebral palsy
cerebral meningitis

cerebral shock
cerebral tabes
cerebral tuberculosis
cerebro-
cerebro-ocular
cerebro-spinal
cerebrospinal fever
cerebrospinal fluid
cerebrospinal meningitis
cerebrospinal nervous system
cerebrovascular accident
ceremonial attire
ceremonial tea
ceric oxide
cerin acid
cerium dioxide
cerium metal
cerium metals
cerium oxide
cero-
ceroso-
cerotic acid
cerro-tree
cerro green
certain knowledge
certain person
certainly not
certifiable case
certificate of admeasurement
certificate of character
certificate of deposit
certificate of enrollment
certificate of incorporation
certificate of indebtedness
certificate of insurance
certificate of invention
certificate of origin
certificate of proficiency
certificate of registry
certificate of stock
certified check
certified copy
certified mail
certified milk
certified public accountant
certified teacher
cerulean blue
cerulean warbler
ceruleo- cervical smear
cervico- cervico-occipital
cervico-orbicular
ceryl alcohol
cessation of combat
cessation of life
cessio bonorum
cestui que trust
cestui que use
cet-
cetane number
cetane rating
cetera desunt
ceteris paribus
cetyl alcohol
cetyl palmitate
cetylic acid
cetylic alcohol
cevitamic acid
cgs units
cha-cha
cha-cha-cha
cha-chaed
chain guard
chain harrow
chain hoist
chain hook
chain isomerism
chain joiner
chain jointer
chain knot
chain letter
chain lightning
chain line
chain link fence
chain linker
chain locker
chain mail
chain maker
chain mark
chain measure
chain mechanism
chain of being
chain of cause and effect
chain of circumstances
chain of command
chain of evidence
chain of ideas
chain of office
chain of thought
chain pickerel
chain pillar
chain pin
chain pipe
chain plate
chain printer
chain pulley
chain pump
chain reaction
chain reactor
chain reasoning
chain reflex
chain riveting
chain rule
chain saw
chain shot
chain smoker
chain smoking
chain snake
chain splice
chain stitch
chain store
chain survey
chain syllogism
chain tape
chain tongs
chain towing
chain twist
chain victory to your car
chain wale
chain warper
chain welder
chain well
chain wheel
chain whip
chain winding
chain wrench
chain-bag
chain-bridge
chain-driven
chain-drooped
chain-grate stoker
chain-mail armor
chain-pull lamp holder
chain-pull switch
chain-pump
chain-react
chain-reacting
chain-reacting pile
chain-shaped
chain-shot
chain-smoke
chain-smoked
chain-smoker
chain-smoking
chain-spotted
chain-stitch
chain-stitching
chain-swung
chain-testing
chain-wale
chain-welding
chain-work
chaining pin
chair arm
chair back
chair bed
chair binder
chair bottom
chair bottomer
cache cane
cache car
cache leg
cache lift
cache of English
cache organ
cache rail
cache seat
cache seater
cache shaper
cache table
cache turner
cache, the
cache-fast
cache-mortising
cache-shaped
cache-warmer
carman of the board
car d'or
car longue
car longues
car lounge
car-longue
car-marine
carases longues
carazzi copal
carcedony yellow
carcid fly
carcid wasp
carcis fly

carco-
carlice cell
carlice flower
carlice moss
carlice veil
carlice vine
carck and talk
carck burner
carck cliff
carck down
carck dust
carck engraving
carck flint
carck hill
carck lime
carck line
chalk maple
chalk mixture
chalk out
chalk pit
chalk plant
chalk process
chalk quarry
chalk stripe
chalk talk
chalk talker
chalk up
chalk-eating
chalk-eyed
chalk-plate process
chalk-stone
chalk-talk
chalk-white
challenge comparison
challenge cup
chamber acid
chamber barrister
chamber blast
chamber chorus
chamber composer
chamber concert
chamber council
chamber counsel
chamber fellow
chamber filter
chamber gas
chamber horse
chamber kiln
chamber master
chamber mastering
chamber music
chamber of commerce
chamber of horrors
chamber opera
chamber orchestra
chamber organ
chamber pot
chamber practice
chamber process
chamber sonata
chamber stool
chamber study
chamber train
chamber vessel
chamber-deacon
chamber-master
chambered nautilus
chameleon grass
chameleon mineral
chameleon tree frog
chamfer bit
chamfer plane
chamois cloth
chamois leather
chamois skin
chamois yellow
champ at the bit
champaca oil
champagne cider
champagne cocktail
champagne cup
champaign country
champing at the bit
champion oak
champion tooth
champleve enamel
chance arrival
chance at odds
chance bairn
chance child
chance discovery
chance event
chance hit
chance it
chance on
chance upon
chance-dropped
chance-hit
chance-hurt
chance-medley
chance-met
chance-poised
chance-shot
chance-sown
chance-taken
chance-won
chancel organ
chancel screen
chancel table
chancellor of the exchequer
chancery court
chancery hand
chancery law
chandelier tree
chang awn
change back
change bowler
change color
change course
change down
change for
change for the better
change for the worse
change front
change gear
change hands
change house
change into
change key
change of allegiance
change of commitment
change of conviction
change of heart
change of life
change of loyalty
change of mind
change of one thing for another
change of pace
change of venue
change off
change over
change ownership
change place
change places with
change point
change ratio
change residence
change ringing
change round
change sides
change the bearing
change the heading
change the preponderance
change to a former state
change to something different
change up
change wheel
change with the times
change your allegiance
change your colors
change your identity
change your mind
change your note
change your song
change your tune
change your ways
change-case key
change-house
change-over
change-over switch
change-ringing
change-speed gear
change-up
changed for the better
changement de pied
changements de pied
changer-off
changing bag
changing note
changing tone
channel bar
channel bass
channel board
channel bolt
channel cat
channel filter
channel goose
channel iron
channel patch
channel plate
channel rail
channel selector
channel steel
channel stone
channel-back chair
chanson de geste
chansons de geste
chant du cygne
chante-fable
chante-fables
chantry priest
chaotic heart
chap-book
chap-fallen
chap-money
chaparral bird
chaparral broom
chaparral cock
charcoal fire
charcoal furnace
charcoal gray
charcoal grey
charcoal iron
charcoal oven
charcoal paper
charcoal pencil
charcoal pit
charcoal plate
charcoal point
charcoal powder
charcoal rot
charcoal tree
charcoal wood
charcoal-burner
charcoal-gray
charga-plate
charge account
charge book
charge card
charge carrier
charge conjugation
charge d'affaires
charge density
charge for
charge hand
charge in
charge nurse
charge of quarters
charge off
charge on
charge plate
charge sheet
charge the jury
charge to
charge to experience
charge to the jury
charge to your account
charge up
charge upon
charge weigher
charge with
charge-a-plate
charge-exchange accelerator
charge-house
charge-off
chargeable to
charged moment
carged up
carges forward
carging of the jury
carging order
carging rate
carging stick
chartiot driver
chartiot driving
chartiot plane
chartiot pole
chartiot race
chartiot racer
chartiot side
chartiot wheel
chartiot-shaped
chartismatic figure
chartismatic gift
chartismatic leader
chartismatic movement
chartismatic renewal
carity ball
carity bazaar
carity boy
carity case
carity commission
carity girl
carity house
carity school
carity stamp
carity ward
carity work
carity worker
charles's wain
carley horse
carlite russe
carm school
carm the birds out of the trees
carm-bound
carm-built
carm-engirdled
carm-struck
camed circle
camed life
carmel house
cart a course
cart house
cart room
chattel mortgage
chattel slave
chattels personal
chattels real
chatter mark
chatter water
chatterbox tree
chattering of the teeth
chaud-froid
chaud-melle
chaulmoogra oil
chaun-
chaw-bacon
chaw-stick
che sara sara
che-choy
cheadle dock
cheap as dirt
cheap at half the price
cheap at the price
cheap item
cheap money
cheap rates
cheap shot
cheap skate
cheap-jack
cheap-john
cheat death
cheat on
cheat the undertaker
check a parameter
check and doublecheck
check binding
check boy
check brace
check chamber
check collar
check endorser
check exchange
check folio
check gauge
check girl
check in
check in and out
check in full career
check key
check line
check list
cheese it
cheese knife
cheese maggot
cheese maker
cheese making
cheese mite
cheese mold
cheese pitch
cheese plate
cheese press
cheese rack
cheese rennet
cheese running
cheese scoop
cheese skipper
cheese souffle
cheese straw
cheese toaster
cheese trier
cheese tub
cheese vat
cheese wring
cheese-head
cheese-headed
cheese-paring
cheesebox seat
cheesed off
cheeseparings and candle ends
chef d' oeuvre
chef d'oeuvre
chef d'ouvre
chef de cuisine
chef salad
chef-d'
chef-d'oeuvre
chefs de cuisine
chefs-d'oeuvre
cheil-
cheir-
cheiro-
chem-
chemic mixer
chemical analysis
chemical apparatus
chemical bond
chemical closet
chemical corps
chemical detector
chemical dictionary
chemical dynamics
chemical element
chemical elements
chemical engineer
chemical engineering
chemical equation
chemical fertilizer
chemical fuse
chemical lead
chemical physics
chemical potential
chemical reaction
chemical rocket
chemical solution
chemical sympathectomy
chemical toilet
chemical warfare
chemically pure
chemico-
chemin de fer
chemist's shop
chemo-
chemosynthetic bacteria
chenille Axminster
chenille carpet
chenille plant
chenille rug
chenopodium oil
cheoplastic metal
cheque card
chequer-chamber
chequer-wise
chequer-work
chequered flag
cherchez la femme
cherish a belief
cherish a feeling
cherish an idea
cherish at the heart's core
cherish the hope
cherish the memory of
cherokee rose
cheroonjie nut
cherry aphid
cherry apple
cherry bay
cherry birch
cherry bird
cherry bomb
cherry bounce
cherry brandy
cherry chopper
cherry coal
cherry coffee
cherry cordial
cherry country
cherry crab
cherry crush
cherry currant
cherry fair
cherry finch
cherry fruit fly
cherry fruit sawfly
cherry grader
cherry gum
cherry holly
cherry laurel
cherry leaf beetle
cherry leaf spot
cherry maggot
cherry mildew
cherry orange
cherry pepper
cherry picker
cherry pie
cherry pit
cherry pitter
cherry plum
cherry red
cherry rum
cherry scab
cherry scale
cherry seeder
cherry slug
cherry smash
cherry stone
cherry stoner
cherry sucker
cherry tomato
cherry wine
cherry-bob
cherry-cheeked
cherry-colored
cherry-crimson
cherry-flavored
cherry-laurel oil
cerry-lipped
cerry-merry
cherry-pie
cherry-red
cherry-ripe
cherry-rose
cherry-tree gum
cherry-wood
chert quarrier
chesapeake bay retriever
cheshire cat
cheshire cheese
chess apple
chess clock
chess notation
chess opening
chess rook
chess-apple
chess-men
chess-playing machine
chess-tree
chessylite blue
chest X-ray
chest expander
chest founder
chest foundering
chest lid
chest lock
chest maker
chest measurer
chest note
chest of drawers
chest of viols
chest protector
chest register
chest tone
chest voice
chest wall
chest weight
chest-deep
chest-foundered
chest-on-chest
custed arrow
chester white
chestnut bean
chestnut blight
chestnut borer
chestnut bottle
chestnut brown
chestnut bud
chestnut clam
chestnut coal
chestnut extract
chestnut flour
chestnut oak
chestnut roaster
chestnut sedge
chestnut shell
chestnut stuffing
chestnut timber worm
chestnut tongue
chestnut tree
chestnut weevil
chestnut-backed
chestnut-bark disease
chestnut-bellied
chestnut-brown
chestnut-collared
chestnut-colored
chestnut-crested
chestnut-crowned
chestnut-red
chestnut-roan
chestnut-sided
chestnut-winged
cheval de bataille
cheval de frise
cheval glass
cheval screen
cheval-de-frise
cheval-glass
chevalier bird
chevalier crab
chevaux de bataille
chevaux-de-frise
chevron-shaped
chew ass
chew out
chew over
chew the cud
chew the fat
chew the rag
chew the scenery
chew up
chew up the scenery
chew your
chewing gum
chewing louse
chewing tobacco
chewing-out
dez soi
chi-lin
chi-rho
chi-square
chi-square distribution
chi-square test
chi-squared test
chian turpentine
chica red
chick-pea
chickasaw plum
chicken Cacciatore
chicken Kiev
chicken Marengo
chicken Tetrazzini
chicken and dumplings
chicken bird
chicken breast
chicken broth
chicken cholera
chicken colonel
chicken coop
chicken corn
chicken fancier
chicken farm
chicken farmer
chicken farming
chicken feed
chicken foot
chicken grape
chicken gumbo
chicken halibut
chicken hawk
chicken hazard
chicken heart
chicken house
chicken ladder
chicken liver
chicken louse
chicken mite
chicken out
chicken paprikas
chicken pepper
chicken pest
chicken plover
chicken pox
chicken ranch
chicken roost
chicken salad
chicken septicemia
chicken snake
chicken soup
chicken switch
chicken thief
chicken tick
chicken tortoise
chicken turtle
chicken wire
chicken yard
chicken-billed
chicken-brained
chicken-breasted
chicken-breastedness
chicken-farming
chicken-hazard
chicken-hearted
chicken-heartedly
chicken-heartedness
chicken-livered
chicken-liveredness
chicken-meat
chicken-spirited
chicken-toed
chickens-toes
chickling vetch
chickweed family
chickweed phlox
chickweed wintergreen
chicle bleeder
chicle gum
chico mamey
chicory family
chief constable
chief cook
chief engineer
chief executive
chief executive officer
chief justice
chief justiceship
chief librarian
chief master sergeant
childhood's careless days
childish scrawl
childish treble
children of Israel
children of darkness
children of the devil
children's book
children's dictionary
children's hospital
children's librarian
children's magazine
children's shop
children's wear
chile con carne
chile niter
chile saltpeter
chile sauce
chili and beans
chili con carne
chili pepper
chili powder
chili sauce
chili vinegar
chilio-
chill along the spine
chill casting
chill mold
chill plow
chill to the bone
chill to the marrow
chill your spine
chill-cast
chilled to the bone
chilli con carne
chilli pepper
chilli powder
chilli sauce
chilling wind
chills of fear
chills of terror
chilio-
chime hoop
chime in
chime in with
chime of bells
chime whistle
chiming bell
chimley neuck
chimney bar
chimney bellflower
chimney board
chimney breast
chimney cap
chimney corner
chimney flute
chimney glass
chimney hook
chimney jack
chimney lug
chimney money
chimney piece
chimney pink
chimney plant
chimney pot
chimney repairer
chimney rock
chimney stack
chimney stalk
chimney swallow
chimney sweep
chimney sweeper
chimney swift
chimney tax
chimney throat
chimney top
chimney tun
chimney wheel
chimney wing
chimney-piece
chimney-pot hat
chin cough
chin fly
chin music
chin rest
chin shield
chin stay
chin strap
chin whiskers
chin-bearded
chin-bone
chin-chin
chin-chinned
chin-chinning
chin-deep
chin-high
chin-up
chlor-
chloracetic acid
chloral hydrate
chloramine-T
chloric acid
chloric ether
chloride of lime
chloride paper
chlorinated lime
chlorine azide
chlorine dioxide
chlorine family
chlorine peroxide
chlorine water
chloro-
chloroacetic acid
chlorobromid paper
chlorobromide paper
chloroformyl chloride
chlorophenol red
chlorophyll a
chlorophyll b
chlorophyll body
chloroplatinic acid
chlorosulfonic acid
chlorous acid
choc-ice
chock cheese
chock stone
chock-a-block
chock-full
chocolate bar
chocolate brown
chocolate cake
chocolate candy
chocolate chip cookie
chocolate corn
chocolate coverer
chocolate dipper
chocolate drop
chocolate eclair
chocolate family
chocolate milk
chocolate mill
chocolate mixer
chocolate mold
chocolate molder
chocolate molding
chocolate mousse
chocolate packer
chocolate pudding
chocolate sifter
chocolate soldier
chocolate tree
chocolate wrapper
chocolate-box
chocolate-brown
chocolate-coated
chocolate-colored
chocolate-flower
chocolate-red
choctaw-root
choice bit of dirt
choice morsel
choice of Hercules
choice of words
choice reaction
choice-drawn
choir aisle
choir chaplain
choir invisible
choir loft
choir manual
choir member
choir organ
choir rail
choir school
choir screen
choir stall
choir wall
choke apple
choke back
choke coil
choke collar
choke off
choke on
choke out
choke pear
choke point
choke up
choke-
choke-bore
choke-full
choked off
choked up
choked voice
choker setter
choking coil
choking off
chol-
cholane series
chole-
cholera horn
cholera infantum
cholera morbus
cholera nostras
cholic acid
choline esterase
cholo-
chomp at the bit
chondr-
chondro-
chondro-osseous
chondroitin-sulphuric
chondrotrophic hormone
choo-choo
choo-choo train
choo-chooed
choo-chooing
choof off
choose out
choose rather
choose to
choose up
chop and change
chop chop
chop dollar
chop down
chop logic
chop mark
chop sooy
chop stroke
chop suey
chop-cherry
chop-chop
chop-church
chop-fallen
chop-house
chop-logic
chop-stick
chop-suey
chopped steak
chopped-off
chopper cot
chopper tool
cropping block
cropping knife
cropping sea
crumpy sea
cor bishop
choral conductor
choral dancer
choral dancing
choral director
choral fantasy
choral group
choral music
choral service
choral singer
choral singing
choral society
choral speaking
choral symphony
chorale prelude
chord chart
chord of the sixth
choral organ
chord packing
chord pitch
chord symbol
chorda dorsalis
chorda tendinea
chorda tympani
chordae tendineae
choral boy
chora minor
choro-
chori-
chorioallantoic membrane
chorionic gonadotrophin
chorionic gonadotropin
choroid coat
choroid membrane
choroid plexus
chorus boy
chorus frog
chorus girl
chorus man
chorus of cheers
chorus reed
chorus show
chorus singer
chose in possession
close local
close transitory
closed freeholder
closed kind
closed people
closed sort
choices in action
choices in possession
choices local
choices transitory
chota hazri
chou moellier
chou paste
chou pastry
chou-fleur
chouse out of
choux pastry
chow chow
chow down
chow line
chow mein
chow-chow
chrisom child
christ's-thorn
christ-cross
christ-cross-row
christ-like
christ-tide
christcross-row
christian brother
christian dor
christian era
christian name
christian reformed
christian science
christiano-
christmas tree
christo-
christy minstrel
chrom-
chroma-blind
chromat-
chromatic aberration
chromatic circle
chromatic color
chromatic colour
chromatic scale
chromatic semitone
chromatic sign
chromatic spectrum
chromatic tetrachord
chromaticity coordinate
chromaticity coordinates
chromaticity diagram
chromatin strands
chromato-
chrome acetate
chrome alum
chrome aventurine
chrome black
chrome brick
chrome green
chrome iron
chrome iron ore
chrome leather
chrome lemon
chrome liquor
chrome orange
chrome oxide green
chrome primrose
chrome red
chrome scarlet
chrome sole
chrome spinel
chrome steel
chrome tanning
chrome vermilion
chrome yellow
chrome-nickel
chrome-nickel steel
chrome-tanned
chrome-vanadium steel
chromic acetate
chromic acid
chromic chloride
chromic fluoride
chromium acetate
chromium ammonium sulfate
chromium chloride
chromium family
chromium green
chromium oxide
chromium plate
chromium potassium sulfate
chromium sesquioxide
chromium steel
cromium trioxide
cromium yellow
cromium-plate
cromium-plated
cromo-
cromo-arsenate
cromosome complement
cromosome number
cromyl chloride
cron-
chronic alcoholic
chronic alcoholism
chronic bronchitis
chronic condition
chronic disease
chronic drunk
chronic ill health
chronic infectious arthritis
chronic inflammation
chronic leukemia
chronic pauperism
chronic poor
chronic poverty area
chronicle drama
chronicle history
chronicle play
chronique scandaleuse
chroniques scandaleuses
chrono-
chronological error
chronometer escapement
chrys-
chrysalis oil
chrysanthemum dog
chrysanthemum rust
chryso-
chrysolite green
chrysoprase green
chthonian worship
chub mackerel
chub sucker
chub-faced
chubby-faced
chuck and toss
chuck at
chuck farthing
chuck in
chuck it
chuck out
chuck plate
chuck rib
chuck roast
chuck steak
chuck under the chin
chuck up
chuck wagon
chuck-a-luck
chuck-farthing
chuck-full
chuck-luck
chuck-will's-widow
chucker-out
chuckers-out
chucking lathe
chucking out
chucking reamer
chucky-chuck
chucky-chucky
chug on
chug-a-lug
chug-chug
chukar partridge
chukka boot
chukka boots
chukker brown
chulan family
chum salmon
chum together
chum with
chump end
chupa-chupa
church bell
church book
church calendar
church council
church dignitary
church door
church father
church feast
church furnishing
church house
church invisible
church key
church member
church militant
circle of least confusion
circle of the sphere
circle out
circle setter
circle shear
circle shears
circle squarer
circle theater
circle tour
circle trowel
circle-branching
circle-in
circle-out
circle-shearing
circle-squaring
circle-wise
circled about
circling boy
circling disease
circling-in
circling-out
circuit analysis
circuit analyzer
circuit binding
circuit breaker
circuit court
circuit court of appeals
circuit drive
circuit edges
circuit judge
circuit justice
circuit network
circuit rider
circuit training
circuit-riding
ciruital field
circular argument
circular constant
circular error
circular error probable
circular function
circular knitting
circular letter
circular light
circular measure
circular mil
circular note
circular pitch
circular plane
.circular polarization
.circular probable error
.circular sailing
.circular saw
.circular triangle
.circular velocity
.circular-cut
.circular-cut file
.circular-knit
circulate a petition
circulating capital
circulating capital goods
circulating decimal
circulating equation
circulating library
circulating medium
circulatory collapse
circulatory disease
circulatory system
circum-
circum-meridian
circumflex accent
circumscribed by
circumstantial evidence
circumvent the law
circus artist
circus make-up
circus movement
circus performer
circus rider
circus tent
circus troupe
cire perdue
cire-perdue
circl bunting
cirque-couchant
cirr-
cirrh-
cirrhosis of the liver
cirrhotic inflammation
cirro-
cirro-cumular
cirro-cumulative
cirro-cumulous
cirro-cumulus
cirro-fillum
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratous
cirro-stratus
cirro-velum
cirrocumulus castellanus
cirrocumulus castellatus
cirrocumulus floccus
cirrocumulus lenticularis
cirrocumulus stratiformis
cirrostratus fibratus
cirrostratus filosus
cirrostratus nebulosus
cirrus castellanus
cirrus castellatus
cirrus cloud
cirrus densus
cirrus fibratus
cirrus floccus
cirrus haze
cirrus intortus
cirrus nothus
cirrus spissatus
cirrus stripe
cirrus uncinus
cis-
cis-Elizabethan
cis-elysian
cis-polyisoprene rubber
cis-trans
cis-trans test
cist grave
cistern barometer
cite a case in point
cite a particular
cite cases in point
cite on several counts
cite particulars
citizen by adoption
citizen of the world
citizens band
citizenship by adoption
citizenship by birth
citizenship by naturalization
citizenship paper
citizenship papers
cito disp
citr-
citra-
citrate of magnesia
citric acid
citric acid cycle
citrícula scale
citron butterfly
citron green
citron melon
citron water
citron wood
citron yellow
citron-colored
citron-yellow
citronella circuit
citronella grass
citronella oil
citrovorum factor
citrus anthracnose
citrus belt
citrus black fly
citrus blast
citrus canker
citrus fruit
citrus nematode
citrus rust mite
citrus scab
citrus white fly
city block
city blues
city board
city center
city chicken
city company
city council
city councilman
city court
city crop
city desk
city directory
city district
city dweller
city edition
city editor
city father
city gas
city hall
civil liberties
civil liberty
civil list
civil marriage
civil rights
civil servant
civil service
civil time
civil war
civil wedding
civil year
civil-law
civil-rights
civilian clothes
civilian dress
civilized behavior
civilized taste
clabber up
crack box
crack door
crack goose
crack valve
clado-
claim agent
claim as your right
claim attention
claim jumper
claim sanctuary
claim squatter's right
claim to be
claim your mind
claim your pound of flesh
claim your thoughts
claim-jumper
claim-jumping
claiming race
clair de lune
clair-obscure
clam chowder
clam digger
clam diggers
clam shell
clam up
clamber up
clammy azalea
clammy honeysuckle
clammy locust
clamor for
clamp bushing
clamp cell
clamp connection
clamp coupling
clamp dog
clamp down
clamp down on
clamp jig
clamp rail
clamp truck
clamping down
clamshell brake
clamshell bucket
clamshell door
clamshell doors
clan tartan
clan totemism
clandestine behavior
clang association
clang color
clang tint
clap eyes on
clap hands
clap hands on
clap hold of
clap in jail
clap in prison
clap of thunder
clap on
clap on ratlines
clap on sail
clap on the back
clap sill
clap spurs to your horse
clap the hands
clap together
clap up
clap-net
clap-stick
clapped out
clapper block
clapper box
clapper bridge
clapper rail
clapper valve
clapper-claw
clapping of hands
clare-obscure
claret brown
claret cup
claret dun
claret red
claribel flute
clarified butter
clarin trumpet
clarinet flute
clarion call
clarion-voiced
claro obscuro
clash gear
clash in color
clash of arms
clash with
clashing colors
clashingly colored
clasp hook
clasp knife
clasp lock
clasp nut
clasping-leaved
class boat
class bond
class conflict
class consciousness
class day
class dialect
class distinction
class hatred
class inclusion
class interval
class leader
class list
class lottery
class mark
class meaning
class meeting
class name
class number
class prejudice
class publication
class rate
class ring
class structure
class struggle
class war
class warfare
class-cleavage
class-conscious
classic blues
classic example
classic purity
classical Nahuatl
classical Sanskrit
classical abstraction
classical ballet
classical college
classical conditioning
classical economics
classical economist
classical education
classical guitar
classical guitarist
classical language
classical mechanics
classical music
classical physics
classical pitch
classical purity
classical scholarship
classical tragedy
classico-
classico-lombardic
classification schedule
classification society
classification track
classification yard
classified ad
classified advertisement
classified advertising
classified catalog
classified directory
classified information
classroom building
clatter about
clause boundary
clause terminal
clastral prior
claver grass
clavicembal damour
clavicelo-humeral
claw back
claw balk
claw bar
claw clutch
claw fern
claw foot
claw hammer
claw hand
claw hatchet
claw nut
claw off
claw setting
claw sickness
claw skyward
claw to windward of
claw your way up
claw-and-ball foot
claw-footed
claw-hammer coat
claw-tailed
clay agitator
clay band
clay burner
clay burning
clay court
clay crusher
clay digger
clay drab
clay drier
clay eater
clay fever
clay flour
clay grinder
clay iron
clay loam
clay marl
clay mill
clay miner
clay mineral
clay mixer
clay model
clay modeler
clay pan
clay pigeon
clay pipe
clay pit
clay press
clay pressman
clay pugger
clay pulverizer
clay sculpture
clay shale
clay slate
clay soil
clay stacker
clay stone
clay temperer
clay washer
clay works
clay worsted
clay-bound
clay-built
clay-cold
clay-colored
clay-colored sparrow
clay-digging
clay-dimmed
clay-drying
clay-faced
clay-filtering
clay-forming
clay-grinding
clay-lined
clay-mixing
clay-tempering
clay-washing
clay-wrapped
clayver-grass
clean as a hound's tooth
clean as a new penny
clean as a whistle
clean bill of health
clean bomb
clean forget
clean forgotten
clean full
clean hands
clean house
clean out
clean profit
clean room
clean rum
clean slate
clean sweep
clean up
clean up on
clean-
clean-appearing
clean-armed
clean-boled
clean-bred
clean-built
clean-complexioned
clean-cut
clean-faced
clean-feeding
clean-fingered
clean-grained
clean-handed
clean-legged
clean-limbed
clean-lived
clean-living
clean-looking
clean-made
clean-minded
clean-moving
clean-sailing
clean-saying
clean-seeming
clean-shanked
clean-shaped
clean-shaved
clean-shaven
clean-skin
clean-skinned
clean-smelling
clean-souled
clean-speaking
clean-sweeping
clean-thinking
clean-timbered
clean-washed
cleaned up
cleaner cell
cleaner tooth
cleaner-off
cleaner-out
cleaner-up
cleaning agent
cleaning crop
cleaning devices
cleaning fluid
cleaning hinge
cleaning lady
cleaning man
cleaning out
cleaning shoe
cleaning solvent
cleaning up
cleaning woman
cleanly habits
cleanse away
cleanse yourself of guilt
cleansing away
cleansing cream
cleansing tissue
clear and distinct
clear as crystal
clear as day
clear as ditch water
clear as glass
clear as mud
clear as the nose on your face
clear away
clear coast
clear conscience
clear course
clear eyes
clear for action
clear hawse
clear obscure
clear of
clear off
clear off old scores
clear out
clear plastic
clear profit
clear road
clear sailing
clear shellac
clear sight
clear soup
clear space
clear stage
clear text
clear the air
clear the board
clear the decks
clear the hurdle
clear the land
clear the mind
clear the mind of
clear the path for
clear the road for
clear the skirts of
clear the throat
clear the trade
clear the way
clear thinking
clear to hell and gone
clear up
clear varnish
clear wax
clear your name
clear-air turbulence
clear-boled
clear-channel station
clear-cole
clear-complexioned
clear-crested
clear-cut
clear-cutness
clear-cutting
clear-eye
clear-eyed
clear-eyes
clear-faced
clear-featured
clear-hawse breeches
clear-hawse pendant
clear-headed
clear-minded
clear-mindedness
clear-obscure
clear-sighted
clear-sightedly
clear-sightedness
clear-skinned
clear-spirited
clear-starch
clear-starcher
clear-stemmed
clear-story
clear-sunned
clear-throated
clear-tinted
clear-toned
clear-up
clear-visioned
clear-voiced
clear-walled
clear-witted
clearance angle
clearance car
clearance fit
clearance loan
clearance papers
clearance sale
clearance size
clearance space
clearer fabric
clearing agent
clearing bank
clearing bath
clearing bearing
clearing house
clearing lease
clearing loan
clearing mark
clearing nut
clearing of the track
clearing of your name
clearing out
clearing pole
clearing the decks
clearing up
clearinghouse agent
clearinghouse stock
clearly visible
clearwing moth
cleat work
cleavage cavity
cleavage cell
cleavage crystal
cleavage nucleus
cleave to
cleave to the line
cleave to the thought of
cleft grafting
cleft lip
cleft palate
cleft sentence
cleft weld
cleft-footed
cleft-graft
cleido-mastoid
cleido-occipital
cleidoic egg
clench your fist at
clench-built
clergy house
cliff path
criff rose
criff ruin
criff swallow
criff top
criff wall
criff-bound
criff-chafed
criff-girdled
criff-hanger
criff-hanging
criff-marked
criff-worn
climactic arthritis
climatic bubo
climatic chart
climax basket
climax forest
climb Parnassus
climb down
climb indicator
climb milling
climb on
climb over
climb up
climb your frame
climb-down
climbing bittersweet
climbing fern
climbing fish
climbing frame
climbing fumitory
climbing hempweed
climbing hydrangea
climbing iron
climbing irons
climbing perch
climbing rose
climbing ylang-ylang
clin-
clinch joint
clinch nail
clinch work
clinch-built
clincher tire
clincher work
clincher-built
clinching iron
cling like a burr
cling like a winkle
cling like ivy
cling to
cling to the hope
cling-rascal
clinging vine
clinical death
clinical dextran
clinical diagnosis
clinical medicine
clinical pathology
clinical psychologist
clinical psychology
clinical surgery
clinical thermometer
clink shell
clink-clank
clinker beech
clinker boat
clinker brick
clinker plating
clinker strake
clinker work
clinker-built
clinker-laid plating
clinkety-clink
clinkum bell
clino-
clinonite group
clip bond
clip hook
clip joint
clip off
clip plate
clip the wings
clip the wings of
clip tongs
clip yoke
clip your words
clip-clop
clip-edged
clip-fed
clip-marked
clip-on
clip-winged
clipped form
clipped word
clipper bow
clipper ship
clipper sled
clipper-built
clippety-clop
clipping bureau
clipping time
clique with
clish-clash
clish-ma-claver
cloaca maxima
cloacae maximae
cloak baster
cloak dealer
cloak fern
cloak fitter
cloak hanger
cloak ironer
cloak maker
cloak operator
cloak pin
cloak presser
cloak trimming
cloak yourself
cloak yourself with
cloak-and-dagger
cloak-and-dagger operative
cloak-and-dagger work
cloak-and-suiter
cloak-and-sword
cloak-fashion
cloak-room
cloaked in darkness
clock card
clock chart
clock correction
clock error
clock golf
clock in
clock jack
clock meter
clock movement
clock off
clock on
clock out
clock plant
clock radio
clock setter
clock spring
clock stamp
clock star
clock tower
clock up
clock watch
clock watcher
clock winder
clock winding
clock-hour
clock-making
clock-minded
clock-watcher
clock-watching
clock-work
clockface method
clockwork regularity
clod crusher
clod crushing
clod fender
clod poll
clod pulverizer
clod roller
clod smasher
clod-brown
clod-hopper
clod-pate
clod-poll
clod-tongued
clodding press
clog almanac
clog dance
clog dancer
clog dancing
clog maker
clog up
clogged up
cloisonne enamel
cloister garth
cloister text
cloister vault
cloistered monasticism
cloistered monk
cloistered nun
cloistered vault
clonic spasm
clop-clop
close shave
close shop
close shot
close squeak
close string
close study
close the books
close the circle
close the conning tower hatch
close the door on
close the eyes to
close the hand
close the jaws of the pincers
close the jaws of the trap
close the light
close the purse
close the shutters
close tight
close to
close to the wind
close to your chest
close to your heart
close up
close up like a clam
close upon
close with
close with the land
close your ears
close your eyes
close your eyes to
close your mind
close your mouth
close-annealed
close-at-hand
close-banded
close-barred
close-bitten
close-bodied
close-bred
close-buttoned
close-by
close-clad
close-clapped
close-clipped
close-coifed
close-compacted
close-connected
close-couched
close-shut
close-soled
close-standing
close-sticking
close-stool
close-talking microphone
close-tempered
close-textured
close-thinking
close-tongued
close-up
close-visaged
close-winded
close-woven
close-written
closed arc
closed book
closed chain
closed circle
closed circuit
closed company
closed cornice
closed corporation
closed couplet
closed forever to
closed fracture
closed game
closed gentian
closed loop
closed meeting
closed mind
closed mortgage
closed primary
closed scholarship
closed sentence
closed sequence
closed shell
closed shop
closed sphere
closed string
closed system
closed to
closed traverse
closed union
closed-circuit
closed-circuit cell
closed-circuit grinding
closed-circuit telegraphy
cloth fuller
cloth hall
cloth lapper
cloth maker
cloth measure
cloth measurer
cloth mercer
cloth miller
cloth napper
cloth numberer
cloth of gold
cloth oil
cloth packer
cloth paper
cloth piecer
cloth plate
cloth press
cloth presser
cloth printer
cloth prover
cloth red
cloth roll
cloth scourer
cloth shearer
cloth shrinker
cloth slitter
cloth sorter
cloth Stamper
cloth stitch
cloth stretcher
cloth tape
cloth tenter
cloth tester
cloth warper
cloth weaver
cloth weigher
cloth yard
cloth yard shaft
cloth-backed
cloth-calendering
cloth-covered
cloth-cropping
cloth-cutting
cloth-drying
cloth-dyeing
cloth-eared
cloth-faced
cloth-finishing
cloth-folding
cloth-inserted
cloth-laying
cloth-lined
cloth-maker
cloth-measuring
cloth-of-gold
cloth-shearing
cloth-shrinking
cloth-smoothing
cloth-sponger
cloth-spreadling
cloth-stamping
cloth-testing
cloth-weaving
cloth-winding
cloth-yard
clothbound book
clothe in words
clothe with power
clothed in darkness
clothed with authority
clothes beater
clothes bin
clothes chest
clothes closet
clothes hamper
clothes hanger
clothes louse
clothes maid
clothes maiden
clothes moth
clothes peg
clothes pole
clothes post
clothes presser
clothes rack
clothes screen
clothes spoiling
clothes stick
clothes stop
clothes tree
clothes wringer
clothes-conscious
clothes-consciousness
clothes-drier
clothes-drying
clothes-peg
cloud-crammed
cloud-crossed
cloud-cuckoo-land
cloud-curtained
cloud-dispelling
cloud-dividing
cloud-drowned
cloud-eclipsed
cloud-enveloped
cloud-flecked
cloud-girt
cloud-headed
cloud-hidden
cloud-kissing
cloud-laden
cloud-led
cloud-piercing
cloud-rocked
cloud-scaling
cloud-seeding
cloud-shaped
cloud-surmounting
cloud-surrounded
cloud-topped
cloud-topped peak
cloud-touching
cloud-woven
cloud-wrapped
clouded mind
clouded over
clouded sulfur
cloudless sulphur
clouds on the horizon
clout nail
clout shoot
clout shot
clout-shoe

clove brown
clove carnation
clove cassia
clove cinnamon
clove currant
clove gillyflower
clove hitch
clove hook
clove nutmeg
clove oil
clove pepper
clove pink
clove tree
clove-gillyflower
clove-strip
cloven foot
cloven hoof
cloven-footed
cloven-footedness
cloven-hoofed
clover aphid
clover bloom
clover blossom
clover broom
clover broomrape
clover cent
clover dodder
clover fern
clover grass
clover hay
clover hay worm
clover head
clover honey
clover leaf
clover mite
clover root
clover root borer
clover rot
clover seed
clover stubble
clover weevil
clover wilt
clover worm
clover-grass
clover-leaf midge
clover-leaf roll
clover-seed midge
clover-sick
clover-sickness
cloverleaf aerial
clovis point
clow-gilofre
clown around
clown white
club car
club chair
club cheese
club compass
club coupe
club fighter
club foot
club fungus
club grass
club hand
club head
club law
club link
club lounge chair
club mold
club moss
club mosses
club palm
club plane
club root
club rush
club sandwich
club shell
club skate
club soda
club sofa
club steak
club together
club tooth
club topsail
club wheat
club-armed
club-ended
club-fist
club-foot
club-footed
club-footed jib
club-haul
club-headed
club-high
club-law
club-man
club-moss
club-moss family
club-riser
club-rush
club-shaped
clubfoot moss
clumber spaniel
clump block
clump foot
clump-head grass
clumsy performance
clumsy-fisted
cluster bean
cluster cup
cluster fig
cluster fir
cluster flower
cluster fly
cluster leg
cluster pine
cluster point
cluster variable
cluster wheat
cluster-cup lichen
cluster-cup stage
clusterhead pink
clutch bag
clutch shaft
clydesdale terrier
clypeo-
cn-
coco-adaptation
coco-adjust
coco-adventure
coco-afforest
coco-agency
coco-allied
coco-ally
coco-appear
coco-aration
coco-assessor
coco-assist
coco-attest
coco-ax
coco-bishop
coco-brother
coco-clause
coco-conspirator
coco-defendant
coco-driver
coco-ed
coco-education
coco-effect
coco-efficacy
coco-equate
coco-establishment
coco-estate
coco-executor
co-exist
coco-feoffee
coco-guardian
coco-infinite
coco-inhabit
coco-inhere
coco-inheritor
coco-labourer
coco-latitude
coco-lessee
coco-life
coco-mart
coco-martyr
coco-mate
coco-nominee
coco-obligant
coco-oblige
coco-obligor
coco-occupant
coco-occupy
coco-occurrence
coco-omnipotent
coco-omniscient
coco-op
coco-operable
coco-operancy
coco-operant
coco-operate
coco-operation
coco-operationist
coco-operative
coco-operatively
coco-operativeness
coco-operator
coco-operculum
coco-opt
coco-optate
coco-optation
coco-optative
coco-option
coco-optive
coco-ordain
coco-ordainer
coco-order
coco-ordinacy
coco-ordinal
coco-ordinance
coco-ordinancy
co-ordinate
co-ordinately
co-ordinateness
co-ordination
co-ordination formula
co-ordination number
co-ordinative
co-ordinator
co-ordinary
co-organize
co-origin
co-original
co-originality
co-orthogonal
co-orthotomic
co-ossification
co-ossify
co-owner
co-ownership
co-patriot
co-presence
co-radicate
co-regent
co-relation
co-religionist
co-respondent
co-rival
co-sentient
co-signatory
co-signer
co-sovereign
co-star
co-starred
co-starring
co-subordinate
co-supreme
co-sureties
co-surety
co-tenant
co-tidal
co-trustee
coune
co-unite
co-use
couversed
co-walker
co-widow
co-wife
coal cellar
coal checker
coal chute
coal cleaner
coal contractor
coal conveyer
coal crusher
coal cutter
coal depot
coal digger
coal discharger
coal dredger
ccoal drill
ccoal dump
ccoal dust
ccoal elevator
ccoal field
ccoal flap
ccoal fleet
ccoal furnace
ccoal gas
ccoal goose
ccoal grinder
ccoal hauler
ccoal hawker
ccoal heat
ccoal heaver
ccoal hewer
ccoal hod
ccoal hoist
ccoal hole
ccoal kiln
ccoal labeler
ccoal leveler
ccoal loader
ccoal lump
ccoal measures
ccoal mine
ccoal miner
ccoal mining
ccoal oil
ccoal operator
ccoal passer
ccoal picker
ccoal pipe
ccoal pit
ccoal plant
ccoal pocket
coal pot
c coal producer
c coal pulverizer
c coal refiner
c coal scoop
c coal screen
c coal screener
c coal scuttle
c coal shaker
c coal ship
c coal shovel
c coal shoveler
c coal sieve
c coal sorter
c coal spreader
c coal sprinkler
c coal stacker
c coal storage
c coal stove
c coal tallyman
c coal tar
c coal tipper
c coal tipple
c coal tit
c coal tongs
c coal trimmer
c coal truck
c coal unloader
c coal wagon
c coal washer
c coal washery
c coal weigher
c coal wharf
c coal wharfinger
c coal workings
c coal works
c coal-bearing
c coal-black
c coal-blue
c coal-boring
c coal-breaking
c coal-burning
c coal-cutting
c coal-dark
c coal-dumping
c coal-elevating
c coal-eyed
c coal-faced
coal-fired
coal-fish
coal-gas
coal-handling
coal-house
coal-laden
coal-leveling
coal-loading
coal-man
coal-measure
coal-meter
coal-miner's lung
coal-picking
coal-pit
coal-producing
coal-pulverizing
coal-sack
coal-scuttle
coal-sifting
coal-stone
coal-tar
coal-tar creosote
coal-tar crude
coal-tar dye
coal-tar pitch
coal-tester
coal-tit
coal-whiper
coal-whipping
coal-works
coaling station
coalition government
coarse fish
coarse texture
coarse-featured
coarse-fibered
coarse-grained
coarse-grainedness
coarse-haired
coarse-handed
coarse-lipped
coarse-minded
coarse-skinned
coarse-spoken
coarse-spun
coarse-textured
course-tongued
course-toothed
coarse-wrought
coarseness of grain
coarseness of intellect
coast artillery
coast belt
coast fever
coast grass
coast guard
coast guard cutter
coast jointweed
coast lily
coast live oak
coast nutmeg
coast patrol
coast pilot
coast rat
coast redwood
coast rhododendron
coast seal
coast station
coast trade
coast trillium
coast-fishing
coast-guard cutter
coast-to-coast hookup
coastal navigation
coastal plain
coaster brake
coasting flight
coasting lead
coasting trade
coasting wagon
coastwise navigation
ccoat armor
coat armour
coat arms
coat card
coat flower
coat hanger
coat money
coat of arms
coat of mail
coat of paint
coat shirt
coat-armor
coat-card
coat-money
coat-of-mail shell
coat-of-plates construction
coat-tail
coated lens
cooti-mondi
cooti-mundi
coeating paper
coaxial cable
coaxial network
coaxial propellers
coaxial speaker
cob cactus
cob coal
cob loaf
cob meal
cob money
cob swan
cob wall
cob-iron
cob-nut
cob-swan
cobalt 60
cobalt bloom
cobalt blue
cobalt bomb
cobalt bronze
cobalt chloride
cobalt crust
cobalt glance
cobalt glass
cobalt green
cobalt hydroxide
cobalt potassium nitrite
cobalt red
cobalt sulphate
cobalt therapy
cobalt ultramarine
cobalt violet
cobalt violet deep
cobalt violet light
cobalt vitriol
cobalt yellow
cobaltiferous
cobaltiferous wad
cobaltite
cobaltitious hydroxide
cobble coal
cobble gravel
cobble rammer
cobble-stone
cobbler's wax
cobra de capello
cobra plant
cobra-hooded
cabras de capello
coburg loaf
cobweb bird
cobweb houseleek
cobweb micrometer
cobwebs of antiquity
cocaine family
cocaine plant
cocaine sniffer
coccidiodal granuloma
cocculus indicus
coccy-
coccygeo-anal
coccygeo-mesenteric
coccygeo-
occhi sapota
cochin china
cochin oil
cochin-china
cochineal cactus
cochineal fig
cochineal insect
cochineal plant
cochit zapotl
cochlear duct
cochleariform process
cohon de lait
cochyliis moth
cock a snook
cock a snook at
cock ale
cock and pie
cock bead
cock bread
cock broth
cock crowing
cock feather
cock metal
cock of the walk
cock of the woods
cock penny
cock robin
cock schnapper
cock sorrel
cock sparrow
cock the ears
cock the eye
cock up
cock's head hinge
cock's-comb
cock's-foot
cock's-head
cock-a
cock-a-doodle
cock-a-doodle--dooed
cock-a-doodle--doing
cock-a-doodle-doo
cock-a-doodle-doos
cock-a-hoop
cock-a-hooping
cock-a-hoopish
cock-a-hoopness
cock-a-leekie
cock-a-whoop
cock-and-bull
cock-and-bull story
cock-and-bull-story
cock-and-pinch
cock-as-hoop
cock-awhoop
cock-bill
cock-boat
cock-brain
cock-brained
cock-crow
cock-crowning
cock-eye
cock-eyed
cock-feathered
cock-feathering
cock-fight
cock-fighting
cock-horse
cock-laird
cock-loft
cock-master
cock-match
cock-nest
cock-of-the-rock
cock-paddle
cock-penny
cock-road
cock-shut
cock-shy
cock-sparrowish
cock-stride
cock-sure
cock-tailed
cock-throppled
cock-up
cockatoo bush
cockatoo farmer
cockatoo fence
cockatoo fish
cockatoo grass
cockatoo orchis
cockatoo parakeet
cocked hat
cocker spaniel
cocket center
cocket centering
cockeye bob
cockeye pilot
cockeyed bob
cockeyed drunk
cokie-leekie
cocking cart
cockle button
cockle garden
cockle hat
cockle oast
cockle stairs
cockle stove
cockle strewer
cockle wheat
cockle-bread
cockle-headed
cockle-shell
cockles of the heart
cockles of your heart
cocks-of-the-rock
cockscomb grass
cocksfoot grass
cockspur flower
cockspur grass
cockspur hawthorn
cockspur rye
cockspur thorn
cockspur vine
cocktail chair
cocktail dress
cocktail glass
cocktail hour
cocktail lounge
cocktail party
cocktail sauce
cocktail shaker
cocktail stick
cocktail table
cocktail-party chitchat
cocky-leekey
cookyolly bird
cookyoly bird
coco de mer
coco grass
coco palm
coco plum
coco sedge
coco-plum
cocoa bean
cocoa beans
cocoa brown
cocoa butter
cocoa plant
cocoa presser
cocoa red
cocoa sedge
cocoa shell
cocoa tea
cocoa-brown
cocoa-colored
coconut beetle
coconut brown
coconut bud rot
coconut butter
coconut cake
coconut crab
coconut cream
coconut ice
coconut jelly
coconut matting
coconut meal
coconut mealy bug
coconut milk
coconut oil
coconut palm
coconut shy
coconut tree
cod end
cod line
cod liver
cod net
cod oil
cod war
cod-bait
cod-fish
cod-liver meal
cod-liver oil
cod-piece
cod-smack
coda mark
coddle yourself
coddled eggs
coddy-muddy
code book
code duello
code flag
code of ethics
code of laws
code of morals
code of oral communication
code pennant
code state
code word
coded message
codeine cough syrup
codex rescriptus
codfish aristocracy
codfish balls
codfish cakes
codlin moth
codling moth
codlins-and-cream
coeducational school
coefficient component
coefficient of acceleration
coefficient of elasticity
coefficient of expansion
coefficient of fineness
coefficient of friction
coefficient of mutual induction
coefficient of performance
coefficient of restitution
coefficient of self-induction
coefficient of viscosity
coe-
colanagliptic sculpture
celiac disease
celiac plexus
celio-
celo-
coen-
coeno-
coercive force
coff-fronted
coffee bag
coffee bar
coffee bean
coffee beans
coffee berry
coffee blight
coffee borer
coffee bread
coffee break
coffee cake
coffee cherry
coffee corn
coffee cream
coffee cup
coffee disease
coffee fern
coffee grinder
coffee house
coffee klatch
coffee klatsch
coffee maker
coffee mill
coffee morning
coffee nib
coffee nut
coffee party
coffee pea
coffee plant
coffee planter
coffee ring
coffee roaster
coffee royale
coffee senna
coffee shell
coffee shop
coffee spoon
coffee stall
coffee strainer
coffee table
coffee tree
coffee urn
coffee wit
coffee-and
coffee-blending
coffee-brown
coffee-cleaning
coffee-color
coffee-colored
coffee-faced
coffee-grading
coffee-grinder winch
coffee-grinding
coffee-house
coffee-imbibing
coffee-klatsch
coffee-making
coffee-planter
coffee-planting
coffee-polishing
coffee-roasting
coffee-room
coffee-scented
coffee-table book
coffer-dam
coffer-work
cofferdam bulkhead
coffin block
coffin boat
coffin bone
coffin carrier
coffin corner
coffin finisher
coffin handle
coffin joint
coffin maker
coffin nail
coffin plate
coffin spark
coffin text
coffin trimmer
coffin-end spoon
coffin-fashioned
coffin-headed
coffin-joint lameness
coffin-shaped
cog locomotive
cog railroad
cog railway
cog the dice
cog-wheel
cog-wood
cogent argument
cogged joint
cogging mill
cognac oil
cognate object
cognitive dissonance
cognitive psychology
cognizant of
cogwheel chair
cogwheel ore
cogwheel respiration
coherence theory
cohesive light
cohune fat
cohune nut
cohune oil
cohune palm
coin of vantage
coil bobbin
coil box
coil former
coil pottery
coil spring
coil-filling
coil-testing
coil-winding
coi]er can
coi]er plate
coin a phrase
coin assor[er
coin bag
coin box
coin case
coin changer
coin check
coin collector
coin counter
coin envelope
coin fancier
coin glass
coke breeze
coke dust
coke iron
coke oven
coke plate
coke tin
coke tower
coke-bottle fuselage
coker-sack
col legno
col-
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abscess
cold as a weldigger's ass
cold as a witch's kiss
cold as a witch's tit
cold as charity
cold as death
cold as ice
cold as marble
cold blast
cold blood
cold cash
cold cathode
cold cathode tube
cold cautery
cold chisel
cold color
cold comfort
cold cream
cold creeps
cold cuts
cold deck
cold drink
cold duck
cold fact
cold feet
cold fish
cold frame
cold front
cold heart
cold light
cold light of reality
cold meat
cold of heart
cold pack
cold patch
cold place
cold pole
cold purgatorial fires
cold rubber
cold sauces
cold season
cold sector
cold sensation
cold shivers
cold short
cold shoulder
cold shower
cold shut
cold snap
cold sober
cold sore
cold sores
cold spell
cold steel
cold storage
cold straightener
cold sweat
cold therapy
cold turkey
cold type
cold war
cold warrior
cold water
cold wave
cold weather
cold wind
cold work
cold-blooded
cold-bloodedly
cold-bloodedness
cold-braving
cold-catching
cold-chisel
cold-chiseled
cold-chiseling
cold-chiselled
cold-chiselling
cold-complexioned
cold-cream
cold-draw
cold-drawing
cold-drawn
cold-drew
cold-engendered
cold-faced
cold-finch
cold-flow
cold-forged
cold-hammered
cold-head
cold-hearted
cold-heartedly
cold-heartenedness
cold-meat fork
cold-natured
cold-nipped
cold-pack
cold-pack method
cold-patch
cold-pated
cold-press
cold-producing
cold-roll
cold-rolled
cold-saw
cold-short
cold-shortness
cold-shoulder
cold-shut
cold-slain
cold-spirited
cold-storage
cold-store
cold-swage
cold-sweat
cold-taking
cold-type
cold-type proof
cold-type typesetting
cold-water
cold-water cure
cold-water flat
cold-water glue
cold-water paint
cold-wave flag
cold-weld
cold-white
cold-work
cold-working
cole slaw
cole titmouse
cole-goose
cole-prophet
cole-rake
cole-slaw
cole-staff
cole-tit
colen-bell
colewort green
coliform bacillus
coliform bacteria
coliform bacterium
colinear beam antenna
coliseum ivy
coll’ arco
coll-
colla tempestada
collagen disease
collapse breccia
collapse of authority
collapse ring
collapse therapy
collapsed lung
collapsing tap
collar bag
collar beam
collar bearing
collar blight
collar bolt
collar box
collar button
collar buttoner
collar case
collar cell
collar cutter
collar day
collar disease
collar edger
collar fastener
collar finisher
collar fungus
collar gauge
collar girdle
collar iron
collar ironer
collar machinist
collar maker
collar making
collar nut
collar pad
collar point
collar polisher
collar rot
collar shaper
collar starcher
collar stitcher
collar stud
collar tie
collar tree
collar work
collar-bone
collar-bound
collar-cutting
collar-shaping
collar-to-collar
collar-wearing
collard greens
collared dove
collared lizard
collared peccary
collateral circulation
collateral descendant
collateral evidence
collateral loan
collateral relative
collateral security
collateral trust bond
collateral warranty
collating mark
collect a duty on
collect a tax on
collect call
collect for your services
collect knowledge
collect learning
collect of the Communion
collect of the Mass
collect on delivery
collect oneself
collect your thoughts
collect yourself
collected edition
collected sayings
college of engineering
college of general studies
college of liberal arts
college of music
college of education
college pheasant
college pudding
college student
college try
college widow
college year
college-bred
college-preparatory
collegiate church
collegiate institute
collegium musicum
collet chuck
collet foot
collier’s purchase
colliery manager
collimating eyepiece
collimating lens
collimation axis
collimation error
collimation line
collimation plane
collision bulkhead
collision clause
collision course
collision density
collision diameter
collision emission
collision insurance
collision mat
collision-proof
collo-
collo-
collodion cotton
collodion process
colloid carcinoma
colloid chemistry
colloid mill
colloidal solution
colloidal suspension
colloquial English
colloquial discourse
colloquial language
colloquial speech
colloquial usage
colo-
cologne plant
cologne spirits
cologne water
colon bacillus
colonel blimp
colonel commandant
colonel general
colonel-commandantship
colonial bent
colonial dollar
colonial experience
colonial government
colonial siding
colonialist threat
coloph-
color analysis
color analyzer
color arrangement
color balance
color bar
color base
color blender
color blindness
color blocker
color blower
color box
color brush
color camera
color card
color cell
color changeling
color chart
color checker
color chest
color cinematography
color circle
color clash
color company
color compatibility
color cone
color constant
color contrast
color control
color cycle
color design
color designer
color diagram
color dimension
color doctor
color dominance
color dry sifter
color dryer
color drying
color dyer
color emissivity
color etcher
color film
color filter
color gamut
color gauge
color gelatin
color grinder
color guard
color harmony
color hearing
color index
color instrument
color instruments
color intensity
color kinescope
color line
color matcher
color measurement
color mill
color miller
color mixer
color mixture
color mixture curve
color mixture function
color music
color musician
color negative film
color organ
color party
color patterns
color phase
color photograph
color photography
color point
color print
color printing
color proof
color purity
color quality
color ratio
color reversal film
color salute
color scale
color scheme
color screen
color sense
color sentinel
color separation
color sergeant
color slab
color solid
color spectrum
color spreader
color striker
color system
color target
color television
color temperature
color tone
color top
color tree
color triangle
color up
color vision
color wash
color weakness
color wheel
color with emotion
color zone
color-ball pool
color-bearer
color-blind
color-fading
color-free
color-grinding
color-matching
color-mixture curve
color-sensitize
color-testing
color-washed
Colorado loco vetch
Colorado soprano
colored glasses
colored person
colored spectacles
colored stone
colorful imagination
colorful language
colorimetric quality
coloring book
coloring matter
coloring tool
colors in patches
colors of rhetoric
colossal order
colossus of knowledge
colour bar
colour code
colour filter
colour guard
colour index
colour line
colour phase
colour scheme
colour sergeant
colour supplement
colour-blind
colour-box
colpach heifer
colpo-
colt ale
colt distemper
colt evil
colt's tail
colt's-tail
colt-herb
colt-pixie
coltsfoot snakeroot
columbine blue
columbium pentoxide
columbo wood
columbus day
columella auris
columella cranii
column bone
column chromatography
column formula
column inch
column krater
column lathe
column rule
column shaper
column still
column vector
columna caelata
columna rostrata
columnae caelatae
columnar epithelium
columnar jointing
columnar structure
columnar tactics
colza oil
comb-
coma berenices
coma vigil
comb back
comb bearer
comb case
comb disease
comb duck
comb fern
comb foundation
comb grain
comb holder
comb honey
comb jelly
comb marbling
comb morion
comb out
comb pot
comb pottery
comb rat
comb speedwell
comb ware
comb wheat grass
comb-back
comb-back chair
comb-broach
comb-brush
comb-building
comb-footed
comb-footed spider
comb-fringed grass
comb-grained
comb-out
comb-shaped
comb-toothed shark
combat area
combat boot
combat boots
combat car
combat ceiling
combat command
combat duty
combat engineer
combat fatigue
combat flight
combat group
combat high-explosive rocket
combat intelligence
combat jacket
combat neurosis
combat pilot
combat plane
combat post
combat practice
combat rehearsal
combat rocket
combat service
combat team
combat train
combat unit
combat zone
combative reaction
combed ware
combed yarn
comber board
combination analysis
combination button
combination car
combination center drill
combination chuck
combination consolidation
combination crossing
combination cut
combination door
combination frame
combination fuse
combination jig
combination last
combination lathe
combination lock
combination longwall
combination microphone
combination note
combination pedal
combination piston
combination plane
combination plate
combination plow
combination principle
combination rate
combination room
combination rubber
combination salad
combination shot
combination square
combination tone
combinatorial analysis
combinatorial mathematics
combinatorial topology
combinatory logic
combine harvester
combine in
combined effort
combined experience table
combined operation
combined operations
combing hair
combing machine
combing wool
combining form
combining weight
combust way
combustible material
combustion cell
combustion chamber
combustion engine
combustion engineer
combustion engineering
combustion furnace
combustion lag
combustion method
combustion motor
combustion spoon
combustion train
combustion tube
come a cropper
come about
come across
come across with
come afoul of
come after
come again
come again and again
come alive
come along
come among
come and get it
come and go
come apart
come apart at the seams
come around
come around to
come as a shock
come as a surprise
come as no surprise
come as you are
come at
come at your call
come away
come back
come back at
come barging in
come before
come behind
come between
come breezing in
come busting in
come by
come by chance
come by your own
come clean
come close
come close on the heels of
come closer
come crashing down
come down
come down a peg
come down a peg or two
come down in buckets
come down in price
come down in sheets
come down in torrents
come down on
come down on the side of
come down on your marrowbones
come down out of the clouds
come down squarely in the middle
come down to earth
come down upon
come down with
come down with the needful
come face to face with
come first
come forth
come forward
come foul of
come from
come from an unexpected quarter
come from behind
come full circle
come hat in hand
come hell or high water
come home
come home to
come home to roost
come in
come in conflict with
come in contact
come in for
come in for a landing
come in for a share
come in its turn
come in like a lion
come in sight
come in through a side door
come in view
come into
come into being
come into collision
come into existence
come into man's estate
come into money
come into possession
come into the world
come into vogue
come into years of discretion
come into your head
come into your own
come last
come like a thunderbolt
come like a thunderclap
come near
come nearer
come next
come of
come of age
come off
come off it
come off second best
come on
come on bended knee
come out
come out first
come out in the open
come out in the wash
come out into the open
come out of
come out of it
come out on top
come out on top of the heap
come out with
come over
come rain or shine
come right back at
come round
come round again
come round to
come short
come sick
come sta
come through
come through with
come through with flying colors
come to
come to a center
come to a conclusion
come to a dead stop
come to a decision
come to a determination
come to a focus
come to a full stop
come to a grinding halt
come to a halt
come to a head
come to a parting of the ways
come to a point
come to a screaming halt
come to a shuddering halt
come to a stand
come to a standstill
come to a stop
come to a violent end
come to an agreement
come to an end
come to an understanding
come to an untimely end
come to anchor
come to attention
come to be
come to blows
come to close quarters
come to cold steel
come to dust
come to fruition
come to grief
come to grips with
come to hand
come to know
come to land
come to life
come to light
come to man's estate
come to maturity
come to mind
come to naught
come to no good
come to nothing
come to one
come to pass
come to pieces
come to terms
come to terms with yourself
come to the aid of
come to the fore
come to the front
come to the point
come to the rescue
come to the scratch
come to your ear
come to your ears
come to your journey's end
come to your knowledge
come to your senses
come to yourself
come together
come true
come tumbling down
come unawares
come under
come undone
come unstuck
come up
come up again
come up against
come up fighting
come up for more
come up short
come up smiling
come up to
come up to scratch
come up with
come upon
come upon the stage
come upon unexpectedly
come upon without warning
come uppermost
come what may
come with child
come your way
come-all-ye
come-along
come-at-ability
come-at-able
come-at-ableness
come-back
come-between
come-by-chance
come-down
come-hither
come-hither look
come-hithery
come-off
come-on
come-on man
come-out
come-outer
comedie bouffe
comedie larmoyante
comedie rosse
comedy ballet
comedy drama
comedy of character
comedy of humors
comedy of ideas
comedy of intrigue
comedy of manners
comedy of situation
comedy prop
comedy relief
comely-featured
comers and goers
comet aster
comet finder
comet seeker
comfort room
comfort station
comfort zone
comfortable circumstances
comfortably situated
comic bass
comic book
comic muse
comic novel
comic opera
comic relief
comic section
comic strip
comic supplement
comic-iambic
comico-
coming after
coming and going
coming apart
coming ashore
coming between
coming by
coming from
coming in
coming into being
coming near
coming out
coming short
coming shy
coming to
coming to be
coming to pass
coming to terms
coming together
coming toward
coming unstuck
coming with child
coming-forth
coming-on
coming-out party
comings in
comity of nations
comma bacillus
comma blunder
comma butterfly
comma fault
comma splice
command a view of
command and general staff school
command car
command function
commercial complex
commercial credit
commercial engineer
commercial engineering
commercial enterprise
commercial fertilizer
commercial law
commercial letter of credit
commercial paper
commercial pilot
commercial program
commercial relations
commercial school
commercial transaction
commercial transport
commercial traveler
commercial traveller
commercial vehicle
comminuted fracture
commissary clerk
commissary court
commissary general
commissary steward
commission agent
commission day
commission house
commission merchant
commission officer
commission pennant
commission plan
commission-manager plan
commissioned officer
commissioner for oaths
commissioner-general
commit a
commit a crime
commit a gaffe
commit a solecism
commit adultery
commit an assault upon
commit an atrocity
commit an outrage
commit burglary
commit carnage
commit genocide
commit hara-kiri
commit mass destruction
commit mass murder
commit murder
commit robbery
commit sacrilege
commit sin
commit suicide
commit to an institution
commit to memory
commit to prison
commit to writing
commit yourself
commit yourself to
commitment to memory
committee consideration
committee of correspondence
committee of one
committee of the whole
committee stage
commode step
commodity dollar
commodity exchange
commodity money
commodity paper
common alum
common ancestry
common assent
common belief
common bond
common brad
common carotid
common carotid artery
common carrier
common case
common chord
common coke
common cold
common consent
common cost
common council
common councilman
common denominator
common descent
common divisor
common effort
common endeavor
common enterprise
common factor
common fee
common fraction
common gender
common good
common ground
common iliac artery
common informer
common knowledge
common laborer
common law
common logarithm
common man
common market
common measure
common men
common meter
common metre
common multiple
common nail
common name
common noun
common oak
common occurrence
common of turbary
common opal
common ownership
common people
common person
common phrase
common pitcher plant
common pleas
common practice
common prayer
common property
common rafter
common reed
common rhythm
common room
common ruck
common run
common run of things
common salt
common saying
common school
common scold
common seal
common seaman
common sennit
common sense
common snipe
common soldier
common sort
common source
common speech
common stock
common sulfur
common talk
common tannin
common tern
common time
common topaz
common touch
common variety
common weal
common wheat
common year
common-law
common-law court
common-law estoppel
common-law jurisdiction
common-law lien
common-law marriage
common-law trust
common-law wife
common-room
common-variety
commonly known
commonplace book
commonplace expression
commonsense philosopher
commonsense philosophy
commonsense realism
commonsense realist
commonwealth day
communal effort
communal enterprise
communal marriage
commune with
commune with God
commune with the spirits
communicate orally
communicate verbally
communicate with
communication cord
communication engineering
communication explosion
communication leak
communication room
communication satellite
communication technology
communication theory
communication trench
communications engineer
communications industry
communications media
communications medium
communications net
communications network
communications receiver
communications relay satellite
communications revolution
communications satellite
communications ship
communications theory
communications zone
communion cloth
communion cup
communion hymn
communion in both kinds
communion in one kind
communion of saints
communion plate
communion rail
communion table
communist front
community at large
community center
community centre
community chest
community church
community college
community home
community hospital
community house
community nurse
community of interest
community of interests
community property
community school
community sentiment
community sing
community singing
community supervision
community theater
community trust
commutating pole
commutation ticket
commutative algebra
commutative contract
commutative law
commutator filling
commutator group
commutator motor
commutator pitch
commutator shell
commutator subgroup
compact car
compact of
companion bills amendment
companion cell
companion crop
companion cropping
companion flange
companion hatch
companion hatchway
companion ladder
companion piece
companion set
companion star
companionate marriage
company headquarters
company man
company officer
company reserve line
company secretary
company sergeant-major
company store
company town
company union
comparative anatomy
comparative degree
comparative estimate
comparative ethics
comparative government
comparative grammar
comparative judgment
comparative linguist
comparative linguistics
comparative literature
comparative medicine
comparative method
comparative musicology
comparative philology
comparative psychology
comparative relation
comparative religion
comparative scrutiny
comparative statement
compare and contrast
compare notes
compare point by point
compare to
compare with
compared to
compared with
comparison lamp
comparison microscope
comparison of variables
comparison shopper
comparison shopping
comparison slip
comparison spectrum
comparison star
comparison test
compass about
compass bearing
compass board
compass bowl
compass brick
compass calipers
compass card
compass corrector
compass course
compass deviation
compass deviation card
compass dial
compass direction
compass direction or course
compass error
compass flower
compass heading
compass jellyfish
compass key
compass needle
compass north
compass of mind
compass plane
compass plant
compass rafter
compass reading
compass roof
compass rose
compass saw
compass timber
compass weed
compass window
compass-headed
compensate for
compensated balance
compensated ionization chamber
compensated motor
compensating balance
compensating gear
compensating operation
compensation act
compensation balance
compensation bar
compensation insurance
compensation law
compensation neurosis
compensation pendulum
compensation water
compensatory damages
compensatory interest
compensatory reaction
compensatory spending
compete against
compete with
competitive market
compilation film
compiling routine
complain against
complain loudly
complain of
complement deviation
complement fixation
complement fixation test
complement-binding
complement-fixing
complementary angle
complementary angles
complementary cells
complementary color
complementary colour
complementary distribution
complementary wavelength
complete a purchase
complete answer
complete circuit
complete fertilizer
composite reading
composite sailing
composite school
composite shot
composite text
composite-built
composition carver
composition cloth
composition face
composition factor
composition formula
composition metal
composition of differences
composition of forces
composition pedal
composition piston
composition roofing
composition series
compost heap
compound centrifugal force
compound engine
compound eye
compound flower
compound for
compound fraction
compound fracture
compound function
compound interest
compound interval
compound leaf
compound lens
compound magnet
compound measure
compound microscope
compound motor
compound number
compound ovary
compound pendulum
compound radical
compound sentence
compound time
compound winding
compound words
compound-complex
compound-complex sentence
compound-wound
compregnated wood
comprehensive examination
concentrate the mind
calculate the thoughts
concentrate upon
concentration camp
concentration cell
concentration ring
concentric cable
conceptual art
conceptual artist
conceptual crudity
conceptual realism
conceptual realist
conceptually crude
concern oneself
concern yourself with
concert artist
concert band
concert border
concert etude
concert flute
concert grand
concert grand piano
concert guitar
concert hall
concert music
concert overture
concert party
concert performance
concert pitch
concert season
concert tour
concerted action
concerti grossi
concertina action
concertina movement
concertina table
concerto grosso
concerto grossos
concession road
conch hat
conch shell
conch-
concho grass
conciliation court
concluding line
conclusive argument
conclusive evidence
concours d'Igance
concrete art
concrete block
concrete identity
concrete layer
concrete mixer
concrete music
concrete noun
concrete number
concrete paint
concrete poetry
concrete universal
concurrent jurisdiction
concurrent resolution
concurring opinion
concussion bellows
concussion bomb
concussion fuse
concussion grenade
concussional concussant
condemn to death
condemn to eternal punishment
condemn to hell
condemn yourself
condemned cell
condensation point
condensation polymerization
condensation trail
condensed milk
condensed version
condenser antenna
condenser microphone
condensing engine
condensing hygrometer
condensing lens
condictio triticaria
condign punishment
conditio sine qua non
condition of things
conditional convergence
conditional probability
conditional sale
conditioned reflex
conditioned response
conditioned stimulus
condole with
conduce to
conduce to health
conducive to
conduct a funeral
conduct a poll
conduct a trial
conduct an inquiry
conduct money
conduct pleadings
conduct to
conduct unbecoming a gentleman
conduct yourself
conduct yourself in the face of
conduct yourself toward
conduct yourself vis-a-vis
conduct-money
conduction current
conduction electron
conductometric titration
conductor head
conductor plug
conductor rail
conductor's baton
conduit box
conduit pipe
conduit railway
conduit system
cone adaptation
cone anchor
cone bearing
cone bit
cone brake
cone center
cone chuck
cone clutch
cone compass
cone coupling
cone delta
cone friction clutch
cone gamba
cone joint
cone key
cone lathe
cone mandrel
cone mill
cone number
cone of a complex
cone of silence
cone off
cone pepper
cone plate
cone pulley
cone shaver
cone shell
cone snail
cone speaker
cone tree
cone valve
cone vision
cone wheat
cone wheel
cone-billed
cone-headed
cone-in-cone
cone-nose
cone-shaped
conehead rivet
conehead toggle
coney leopard
coney mole
coney parsley
confabulate the breeze
confectioners’ sugar
confectionery decorator
confederate memorial day
confederate rose
confer a benefit
confer a blessing upon
confer citizenship
confer distinction on
confer honor upon
confer with
conference at the summit
conference room
conference table
confession equality
confession of faith
confide in
confide to
confidence game
confidence interval
confidence limits
confidence man
confidence trick
confidential communication
confidential information
confirm in
confirmation class
confirmed bachelor
confirmed liar
conflict of interest
conflict of laws
conflict of sounds
conflict with
confluence of minds
confluent stream
conform map projection
conform representation
conform to
conform to fact
conform with
conformable to
conformal projection
conformation other-direction
conformity to fact or reality
confound it
confront each other
confront with
confrontation politics
confrontation therapy
confused flour beetle
confusion of sounds
confusion of tongues
confusion worse confounded
conga drum
congee house
congenital defect
congenital disease
congenital heart disease
congenital hypophosphatasia
congenital idiot
congenital immunity
congenital syphilis
conger doust
conger eel
conger-eel
congestive heart failure
conglobate gland
conglomerate corporation
congo dye
congo eel
congo red
congo snake
congratulate yourself
congregational christian
congress boot
congress gaiter
congress shoe
congressional caucus
congressional district
congressional election
congressional immunity
congressional investigation
congressional medal
congressman-at-large
congressmen-at-large
congruence sign
congruent with
conic projection
conic section
conic sections
conical pendulum
conical-shaped
conico-
conico-cylindrical
conico-elongate
conico-hemispherical
conico-ovate
conico-ovoid
conico-subhemispherical
conico-subulate
coniferyl alcohol
coning angle
conjoint therapy
conjugal bond
conjugal knot
conjugal love
conjugal right
conjugal tie
conjugate axis
conjugate numbers
conjugate solution
conjugated protein
conjugation canal
conjugation cell
conjugato-
conjugato-palmate
conjugato-pinnate
conjunction-reduction
conjunctive adverb
conjuncture of events
conjure man
conjure spirits
conjure up
conjure up a vision
conjure up spirits
conk out
connate-perfoliate
connect couple
connect up
connect with
connecting link
connecting rod
connection angle
connection bar
connection with
connective tissue
conning tower
conning tower hatch
conniption fit
connive at
connoisseur of food
connoisseur of wine
conoido-hemispherical
conoido-rotundate
conquering hero
conscience clause
conscience money
conscience-proof
conscience-smitten
conscience-stricken
conscience-striken
conscientious objector
conscious of
conscious of your place
conscious self
consciousness raising
consciousness-expanding
consciousness-expansion
conscript fathers
consecrate to
consecrated bread
consecrated elements
consecutive intervals
consensus gentium
consensus of opinion
consensus omnium
consensus politics
consent by implication
consent decree
consent rule
consent to
consent to silently
conspicuous waste
constable glass
constant attention
constant flow
constant friend
constant of gravitation
constant of integration
constant pressure
constant thrust
constant-chord-rotor helicopter
constantly recur to
constantly revert to
constitute a whole
constituted authority
constitutional amendment
constitutional convention
constitutional freedom
constitutional government
constitutional guarantees
constitutional law
constitutional lawyer
constitutional medicine
constitutional monarch
constitutional monarchy
constitutional psychology
constitutional referendum
constitutional rights
constitutional syphilis
constitutional therapy
constitutional validity
constrain yourself
constrict your views
construct form
construct state
construction bond
construction engineer
construction engineering
construction modifier
construction paper
constructional homonymity
constructive change
constructive imagination
constructive interference
consul general
consular agent
consular service
consulate general
consulates general
consuls general
consult with
consult with your pillow
consult your own wishes
consult your pillow about
consultation room
consultative assembly
consulting room
consume away
consume time
consumed by fire
consumed with curiosity
consumed with desire
consumer cooperative
consumer credit
consumer economy
consumer goods
consumer items
consumer power
consumer preference study
consumer price index
consumer research
consumer resistance
customer sovereignty
customer strike
customer survey
customer's strike
customer-preference survey
custom make
consummate lie
consummation
consummation goods
consummation weed
cont-line
contact a debt
contact action
contact agent
contact dermatitis
contact flight
contact flying
contact infection
contact lens
contact maker
contact making
contact man
contact metamorphosis
contact microphone
contact mine
contact paper
continental shelf
continental slope
continental stitch
continental system
contingency fund
contingency method
contingency reserve
contingency table
contingent beneficiary
contingent fee
contingent fund
contingent interest
contingent liability
contingent on
contingent reserve
continuance in action
continuation day
continuation school
continue the same
continue to be
continue to exist
continued fever
continued fraction
continued proportion
continuing education
continuity clerk
continuity equation
continuity girl
continuity writer
continuous brake
continuous casting
continuous creation
continuous creation theory
continuous miner
continuous spectrum
continuous stationery
continuous tenure
continuous tone
continuous wave oscillator
continuous wave radar
continuous waves
continuous-expansion engine
continuous-wave transmitter
continuum hypothesis
continuum theory
contour bob
contour chair
contour check
contour curtain
contour curve
contour farming
contour feather
contour feathers
contour follower
contour integration
contour interval
contour line
contour map
contour ploughing
contour plowing
contour sheet
contra bassoon
contra bonos mores
contra trombone
contra-
contra-acting
contra-approach
contra-dance
contra-guide rudder
contra-indicant
contra-indicate
contra-indication
contra-ion
contra-lode
contra-propeller construction
contra-related
contra-remonstrant
contra-rotating airscrews
contra-rotation
contraband of war
contraceptive foam
contract a habit
contract an engagement
contract bond
contract bridge
contract by deed
contract for
contract matrimony
contract of record
contract out
contract practice
contract quasi
contract yourself
contractile cell
contraction fit
contraction joint
contraction rule
contraction theory
contradict itself
contraria contrariis curantur
contrarotating propeller
contrary assertion
contrary motion
contrary terms
contrary to
contrary to all expectation
contrary to fact
contrary to law
contrary to order and discipline
contrary to reason
contrary, the
contrary-minded
contrast bath
contrast control
contrast medium
contrast with
contrastive juxtaposition
contrate wheel
contre-
contre-dance
contre-partie
contribute to
contribution clause
contributory negligence
control account
control action
control agent
control assay
control board
control center
control chart
control column
control desk
control electrode
control element
control engineer
control experiment
control feelings
control grid
control group
control indicator
control mark
control means
control mechanism
conventional representation
conventional symbol
conventional usage
conventional war
conventional warfare
conventional weapons
convetual prior
convergence frequency
convergence of events
convergency factor
convergent evolution
convergent squint
convergent strabismus
convergent thinking
converging lens
conversant with
conversation chair
conversation piece
conversational English
conversational partner
conversational quality
converse in
converse motion
converse with
conversion cost
conversion factor
conversion hysteria
conversion neurosis
conversion ratio
conversion reaction
conversion table
conversion value
convert into cash
convert to
convert to use
converted steel
converter reactor
convertible bond
convertible coupe
convertible debenture
convertible preferred stock
convertible securities
convertible sedan
convertible top
convex hull
convex lens
convex mirror
convex point set
convex polygon
convex-concave
convexo-
convexo-concave
convexo-convex
convexo-plane
convey an impression of
conveyor belt
conveyor chain
convict goods
convict yourself
convince to the contrary
convince yourself
convolvulus moth
convulsion root
convulsive therapy
cony-catch
coo-oo
cooch dance
cooch show
coochie show
coochin york
cooee bird
cook accounts
cook off
cook out
cook stove
cook up
cook wrasse
cook your goose
cook-general
cook-out
cooked-up
cookery book
cookery stove
cookie cutter
cookie press
cooking-range
cooks-general
cooky cutter
cool acceptance
cool as a cucumber
cool bag
cool breeze
cool color
cool down
cool head
cool it
cool jazz
cool judgment
cool million
cool off
cool off the economy
cool out
cool the economy
cool your heels
cool-headed
cool-headedly
cool-headedness
cooling breeze
cooling degree-day
cooling down
cooling of the economy
cooling off
cooling off of the economy
cooling system
cooling-card
cooling-off
cooling-off period
coom-ceiled
coon bear
coon cat
coon dog
coon's age
coonskin cap
coop in
coop up
cooched-in
cooper's-wood
cooperative apartment
cooperative apartment house
cooperative bank
cooperative credit union
cooperative farm
cooperative society
cooperative store
coopered joint
coordinate bond
coordinate clause
coordinate geometry
coordinate paper
coordinate system
coordinated operations
coordinated panel
coordinating conjunction
coordinating complex
copper sulfate
copper sulphate
copper worker
copper-alloyed
copper-bearing
copper-bellied
copper-belly
copper-bottomed
copper-coated
copper-colored
copper-covered
copper-faced
copper-fastened
copper-headed
copper-leaf
copper-leaves
copper-lined
copper-melting
copper-plate
copper-red
copper-skinned
copper-smelting
copper-smith
copper-toed
copper-worm
copperas black
copperplate engraving
copperplate hand
copperplate press
copperplate print
copper-tailed
coppice oak
coppice shoot
coppice-feathered
coppice-topped
copple-crown
copple-crowned
copple-stone
copr-
copra oil
copro-
cops and robbers
copse cutter
copse-clad
copse-covered
copulative asyndeton
copulative conjunction
copy after
copy camera
copy chief
copy desk
copy edit
copy editor
copy out
copy paper
copy taster
copy typist
copy-edit
copybook hand
copying ink
copying machine
copying machines
copying paper
copying press
copyright deposit library
copyright infringer
copyright page
coa
coq de bruyere
coquet with
coquet with the idea
coquette bob
coquettish glances
coquilla nut
coquille lens
coquilles Saint-Jacques
coquimbo owl
cquito
cor adiposum
cor angla

cor biloculare
cor blimey
cor bovinum
cor juvenum
cor pseudotriloculare biatriatum
cor pulmonale
cor sinistrum
cor triatriatum
cor triloculare biatriatum
cor triloculare biventriculare
cor villos

cor-
coraco-
coral bead
coral bean
coral bells
coral fern
coral grinder
coral head
coral heads
coral honeysuckle
coral island
coral jasmine
coral lily
coral pink
coral plant
coral reef
coral root
coral snake
coral stitch
coral tree
coral vine
coral-bead tree
coral-beaded
coral-bound
coral-built
coral-buttoned
coral-colored
coral-fishing
coral-girt
coral-making
coral-plant
coral-producing
coral-red
coral-rooted
coral-secreting
coral-snake
coral-tree
coral-wood
coram judice
coram nobis
coram non judice
coram populo
corbel arch
corbel out
corbel step
corbel table
corbel vault
corbie gable
corbie-step
corbin bone
cord conductor
cord connector
cord foot
cord grass
cord maker
cord-connector body
cordage tree
cordate-amplexicaul
cordate-lanceolate
cordate-oblong
cordate-sagittate
cordeau detonant
cordeau fuse
corded pahoehoe
cordia pulmonalia
cordial friendship
cordial understanding
cordial welcome
cordon bleu
cordon off
cordon sanitaire
cordoned off
cordonning off
cordons bleus
cordons sanitaire
corduroy road
cordwood saw
core bar
core barrel
core binder
core boring
core builder
core curriculum
core drawing
core flour
core of your being
core sand
core store
core tester
core time
core vent
core wire
core-
core-baking
core-box plane
core-cutting
core-drying
core-jarring
coriander oil
coriander seed
coriolis effect
coriolis force
cork borer
cork cambium
cork cutter
cork jacket
cork oak
cork puller
cork shredder
cork sorter
cork tile
cork tree
cork up
cork-bark elm
cork-barked
cork-bearing
cork-boring
cork-cutting
cork-forming
cork-grinding
cork-heeled
cork-lined
cork-tipped
corking pin
corking up
corking-pin
corkscrew flower
corkscrew grass
corkwood cotton
corky-headed
corky-winged
cormo-
corn belt
corn borer
corn bread
corn bunting
corn cackle
corn cake
corn cleaner
corn cockle
corn color
corn crake
corn dab
corn dodger
corn drier
corn earworm
corn exchange
corn factor
corn field
corn flakes
corn flour
corn fritter
corn god
corn grass
corn grinder
corn grits
corn huller
corn law
corn lily
corn liquor
corn marigold
corn mayweed
corn meal
corn mint
corn muffin
corn oil
corn on the cob
corn picker
corn picking
corn pit
corn pone
corn popper
corn poppy
corn root aphid
corn rose
corn row
corn salad
corn shock
corn shocker
corn shredder
corn shuck
corn shucking
corn silk
corn smut
corn snake
corn snow
corn spirit
corn stack
corn stubble
corn sugar
corn syrup
corn tash
corn tester
corn thresher
corn whiskey
corn whisky
corn-beads
corn-cob
corn-colored
corn-cracker
corn-crake
corn-devouring
corn-ear worm
corn-eater
corn-exporting
corn-fed
corn-feeding
corn-flag
corn-flour
corn-flower
corn-growing
corn-husk
corn-law
corn-master
corn-picker
corn-planting
corn-producing
corn-rent
corn-salad
corn-snake
corn-stalk
corncob pipe
corne de vache
cornea lens
corneal reflex
corneal transplant
corned beef
corned beef and cabbage
corned beef hash
corned beef sandwich
cornelian cherry
corneo-
corner accessory
corner bead
corner block
corner cabinet
corner chair
corner chisel
corner cupboard
corner in
corner man
corner of the eye
corner of the memory
corner on the market
corner reflector
corner table
corner the market
corner trowel
corner-man
corner-stone
cornes de vache
cornet a pistons
cornet-a-pistons
cornfield ant
cornfield pea
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
coro-
corolla limb
corolla tube
cameron wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coronae radiatae
coronal roots
coronal suture
coronary artery
coronary band
coronary cushion
coronary heart disease
coronary insufficiency
coronary occlusion
coronary ring
coronary thrombosis
coronation oath
coroner's inquest
coroner's jury
coronet braid
coronet of rank
corozo nut
corpora allata
corpora callosa
corpora cardiaca
corpora lutea
corpora striata
corporal punishment
corporal's guard
corporate arms
corporate body
corporate bond
corporate headquarters
corporate image
corporate stock
corporation cock
corporation law
corporation lawyer
corporation securities
corporation stock
corporation stop
corporation tax
corporeal hereditament
corps area
corps d'armée
corps d'élite
corps de ballet
corps de garde
corps diplomatique
corps of advisers
corps of cadets
corps of engineers
corps of signals
corps troops
corpse candle
corpse gate
corpse reviver
corpse-candle
corpulent person
corpus allatum
corpus callosum
corpus cardiacum
corpus christi
corpus delicti
corpus juris
corpus luteum
corpus luteum hormone
corpus striatum
corpus vile
corpuscular theory
correct English
correct copy
correct deportment
correct ear
correct in your behavior
correct in your manners
correcting plate
correcting signals
correction line
correction of error
corrective action
corrector plate
correlation coefficient
correlation ratio
correlative conjunction
correspond to
correspond with
correspondence column
correspondence course
correspondence principle
correspondence school
correspondence theory
corridor of time
corridors of time
corroboratory evidence
corrosion borders
corrosive mercury chloride
corrosive sublimate
corrugated iron
corrugated paper
corrugation irrigation
corrupt administration
corrupt politician
corrupt practices act
corruption of blood
corruption of speech
corset cover
corset designer
corsetior corsetier
cortex parenchyma
cortical epilepsy
cortical tissue
cortico-
corydalis green
cos lettuce
cosine circle
cosmetic dermatitis
cosmetic operation
cosmetic surgery
cosmic constant
cosmic dust
cosmic evolution
cosmic noise
cosmic particle
cosmic particles
cosmic philosopher
cosmic philosophy
cosmic radiation
cosmic ray
cosmic ray bombardment
cosmic ray counter
cosmic rays
cosmic space
cosmic static
cosmic stepping-stone
cosmic time
cosmical geology
cosmico-natural
cosmo-
cosmological argument
cosmological proof
cossack green
cossack hat
cost a packet
cost a pretty penny
cost accountant
cost accounting
cost an arm and a leg
cost and freight
cost benefit analysis
cost card
cost center
cost insurance and freight
cost keeper
cost keeping
cost ledger
cost little
cost money
cost much
cost next to nothing
cost nothing
cost of living
cost out
cost plus
cost sheet
cost system
cost unit
cost what it may
cost you
cost-account
cost-accounting system
cost-effective
cost-free
cost-of-living allowance
cost-of-living index
cost-plus
cost-push inflation
costal margin
costal vein
costal-nerved
costard-monger
costing-out
costless thing
costo-
costume designer
costume drama
costume jewellery
costume jewelry
costume party
costume piece
costus oil
cosy along
cot bar
cot case
cot death
cotamine hydrochloride
cote-hardie
cotelette de mouton
cotelette de porc frais
cotelette de veau
cotta grass
cottage bonnet
cottage cheese
cottage china
cottage fried potatoes
cottage hospital
cottage industry
cottage loaf
cottage piano
cottage pie
cottage pudding
cottage tulip
cottage window
cotter drill
cotter file
cotter mill
cotter pin
cotter slot
cotter way
cottier system
cotton anthracnose
cotton aphid
cotton back
cotton bagging
cotton baller
cotton batting
cotton belt
cotton bill
cotton boll
cotton bollworm
cotton broker
cotton bush
cotton buyer
cotton cake
cotton cambric
cotton candy
cotton chiffon
cotton chopper
cotton cleaner
cotton comber
cotton coverer
cotton crepe
cotton cutter
cotton damask
cotton dryer
cotton duck
cotton dyer
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner
cotton grass
cotton grower
cotton gum
cotton harvester
cotton jenny
cotton lint

cotton linters

cotton lord

cotton mill

cotton mixer

cotton moth

cotton mouse

cotton mouth

cotton mouths

cotton mule

cotton netting

cotton oil

cotton on

cotton opener

cotton packer

cotton picker

cotton plant

cotton plantation

cotton planter

cotton plunger

cotton plush

cotton pongee

cotton powder

cotton preparer

cotton press

cotton print

cotton printer

cotton raiser

cotton rat

cotton rock

cotton root rot

cotton rose

cotton rush

cotton rust

cotton sampler

cotton seed

cotton shipper

cotton sled

cotton sorter

cotton speeder

cotton spinner

cotton spooler

cotton stainer

cotton stripper

cotton sugar

cotton sweep

cotton tapestry

cotton teal
cotton teaser

cotton thistle

cotton thread

cotton tie

cotton to

cotton tree

cotton twist

cotton twister

cotton wadding

cotton warehouseman

cotton warp

cotton waste

cotton weigher

cotton wick

cotton wicking

cotton wilt

cotton winder

cotton wool

cotton works

cotton worm

cotton yarn

cotton-backed

cotton-baling

cotton-bleaching

cotton-clad

cotton-covered

cotton-dyeing

cotton-ginning

cotton-growing

cotton-knitting

cotton-picking

cotton-planting

cotton-printing

cotton-producing

cotton-root bark

cotton-sampling

cotton-sick

cotton-spinning

cotton-weaving

cotton-wicked

cottonseed cake

cottonseed feed

cottonseed flour

cottonseed meal

cottonseed oil

cottonseed tree

cottontail rabbit

cottony cloud
cottony jujube
cottony-cushion scale
cotyl-
cou-cou
couch bed
couch grass
couch in terms
couch maker
couch roll
couch wheat
couch your lance
couch, the
couched harp
couching stitch
cough drop
cough drops
cough medicine
cough mixture
cough sirup
cough syrup
cough up
could be
could sink through the floor
couldn't care less about
coulee cricket
couleur de rose
coulomb meter
coumarone resin
coumarone resins
coumarone-indene
coumarone-indene resin
council bill
council board
council fire
council house
council of ministers
council of state
council of war
council school
council table
council tool
council-manager plan
counsel of perfection
counsel-keeper
counselor-at-law
counselors-at-law
count against
count book
count calories
count down
count for
count heads
count hook
count in
count me out
count noses
count noun
count number
count of
count off
count on
count out
count palatine
count plate
count sheep
count the beats
count ties
count up
count upon
count votes
count wheel
count-rate meter
countably additive function
countably compact set
counted on
counter apse
counter borer
counter check
counter electromotive force
counter image
counter jumper
counter relief
counter scale
counter septum
counter service
counter stern
counter table
counter timber
counter to
counter to your preferences
counter tube
counter wall
counter word
counter-
counter-acquittance
counter-agency
counter-approach
counter-arch
counter-attraction
counter-barry
counter-battery
counter-beam
counter-bill
counter-bore
counter-boule
counter-brace
counter-carte
counter-cast
counter-caster
counter-chevroned
counter-claim
counter-clockwise
counter-coloured
counter-company
counter-couchant
counter-culture
counter-current
counter-deed
counter-disengage
counter-drain
counter-draw
counter-earth
counter-embattled
counter-embowed
counter-ermine
counter-evidence
counter-extension
counter-faced
counter-faller
counter-fessed
counter-fissure
counter-force
counter-gauge
counter-gear
counter-guard
counter-hem
counter-indication
counter-influence
counter-ion
counter-irritant
counter-jumper
counter-lath
counter-letter
counter-lode
counter-marque
counter-motion
counter-move
counter-naïant
counter-nebule
counter-off
counter-opening
counter-paled
counter-parade
counter-parole
counter-party
counter-passant
counter-pawn
counter-penalty
counter-pole
counter-potent
counter-pressure
counter-price
counter-proof
counter-quartered
counter-raguled
counter-rampant
counter-reformation
counter-revolution
counter-revolutionary
counter-riposte
counter-roll
counter-round
counter-salient
counter-scale
counter-scuffle
counter-sea
counter-seal
counter-secure
counter-spell
counter-statement
counter-step
counter-taste
counter-tendency
counter-tenor
counter-tide
counter-tierce
counter-time
counter-trench
counter-tripping
counter-turn
counter-vote
counter-wait
counter-wall
counter-weight
counter-worker
counterfeit money
counterintelligence agent
counterpoint rhythm
counterrotating propeller
counterscarp gallery
countersink bit
counterfeit money
countertotality system
counties palatine
counting glass
counting heads
counting house
counting machine
counting noses
counting number
counting on the fingers
counting room
counting scales
counting tube
counting-out rhyme
countless as the sands
countless as the stars
countré-
country almond
country bank
country bishop
country blues
country borage
country bumpykin
country club
country cousin
country damage
country dance
country dancer
country dancing
country day school
country doctor
country fig
country gentleman
country gooseberry
country hide
country house
country jake
country licorice
country mallow
country mile
country music
country party
country peach
country pepper
country rock
country seat
country store
country town
country wallah
country walnut
country, the
country-and-western
country-and-western music
country-and-western singer
country-born
country-bred
country-dance
country-fashion
country-made
country-style
country-wide
country and
counts palatine
county agent
county attorney
county board
county borough
county building
county clerk
county college
county commissioner
county constabulary
county convention
county council
county court
county courthouse
county fair
county farm
county home
county house
county library
county mutual
county palatine
county police
county rate
county road
county seat
county site
courage fou
courageous act
courbaril copal
coureur de bois
coureurs de bois
courge green
cours d'honneur
course ahead
course light
course of action
course of study
course of things
course of time
course protractor
coursing joint
court Christian
court bond
court bouillon
court calendar
court card
court cards
court christian
court circular
court cupboard
court dance
court danger
court day
court destruction
court dress
court fool
court game
court gray
court guide
court hand
court leet
court martial
court of admiralty
court of appeals
court of arbitration
court of assize
court of attachments
court of chancery
court of claims
court of common pleas
court of conscience
court of domestic relations
court of dustyfoot
court of equity
court of errors
court of first instance
court of guard
court of honor
court of honour
court of inquiry
court of justice
court of last resort
court of law
court of love
court of piepoudre
court of probate
court of record
court of requests
court of review
court of sessions
court of wards
court of wards and liveries
court party
court plaster
court reporter
court roll
court shoe
court tennis
court-appointed lawyer
court-baron
court-bouillon
court-cupboard
court-customary
court-dress
court-house
court-leet
court-mantle
court-martial
court-martials
court-noue
court-plaster
court-tialed
court-tialing
court-tialled
court-tialling
court-yard
courtesy card
courtesy light
courtesy title
courting chair
courting disaster
courting glass
courting mirror
courtly love
courtly politeness
courts Christian
courts-martial
courtship-and-matrimony
cousin once removed
cousin twice removed
cousin-german
cousin-in-law
cousins-german
couvre-feu
covalent bond
cove lighting
cove oyster
cove stripe
cove trowel
coved vault
coven-tree
covenant of indemnity
covenant of salt
covenant of warranty
cover charge
cover crop
cover design
cover girl
cover glass
cover ground
cover memory
cover note
cover paper
cover plate
cover point
cover slip
cover stone
cover story
cover title
cover up
cover up for
cover up your tracks
cover version
cover with excuses
cover your path
cover your short
cover yourself with
cover-point
cover-shame
cover-shoulder
coxsackie virus
coy Spring
coy duck
coyote blast
coyote weed
coyote-brush
coyote-bush
gozy chat
gozy fire
crab Louis
crab apple
crab cactus
crab canon
crab claw
crab float
crab grass
crab harrow
crab locomotion
crab locomotive
crab louse
crab meat
crab nut
crab oil
crab plover
crab pot
crab reel locomotive
crab spider
crab stock
crab thistle
crab tree
crab winch
crab yaws
crab-eating
crab-faced
crab-fish
crab-grass
crab-harrow
crab-plover
crab-shed
crab-sidle
crabbed age
crabbed hand
crabbing machine
crabeater seal
crack a book
crack a crib
crack a joke
crack a safe
crack a smile
crack down
crack down on
crack of dawn
crack of doom
crack off
crack on
crack on sail
crack open
crack shot
crack the whip
crack up
crack willow
crack wise
crack your brains
crack your invention
crack-
crack-loo
crack-off
crack-the-whip
crack-up
crack-willow
cracked on
cracked voice
cracked-wheat bread
cracker bonbon
cracker jack
cracker mill
cracker-barrel
cracker-off
cracker-on
cracker-open
crackers-on
cracking still
cracklin' bread
crackling bread
crackling fire
cradle bar
cradle book
cradle cannon
cradle holding
cradle maker
cradle orchid
cradle roll
cradle roof
cradle scythe
cradle snatcher
cradle snatching
cradle vault
cradle-shaped
cradle-to-grave security
craft guild
craft paper
craft union
craft unionist
crafty rascal
crag martin
crag swallow
crag-and-tail
crag-bound
crag-built
crag-carven
crag-covered
crag-fast
crake-needles
cram down your throat
cram in
cram the mind
cram the mind with
cram up
cram with facts
cram-full
crambo clink
crambo jingle
crammed full
cramp bark
cramp bone
cramp iron
cramp ring
cramp your style
cram-p-iron
cramped hand
cramped ideas
cranberry blast
cranberry bog
cranberry bush
cranberry gall
cranberry glass
cranberry gourd
cranberry marsh
cranberry sauce
cranberry scald
cranberry tree
cranberry worm
crance iron
crane driver
crane fly
crane gray
crane line
crane the neck
crane your neck
crane's-bill
crane-fly
cranging hook
crani-
cranial index
cranial nerve
cranio-
cranio-acromial
cranio-aural
craniosacral nervous system
cranium amulet
crank arm
crank axle
crank brace
crank chain
crank disk
crank handle
crank hanger
crank in
crank letter
crank path
crank pit
crank plane
crank press
crank shaper
crank throw
crank up
crank web
crank wheel
crank-driven
crank-sided
crap around
crap game
crap grass
crap out
crap shooter
crap shooting
crap table
crapaud stone
crapaudine door
crape fern
crape jasmine
crape myrtle
crape needle
crape ring
crape-fish
crappit head
crappit-head
crash barrier
crash boat
crash cymbal
crash dive
crash helmet
crash in
crihsh into
crihsh land
crihsh landing
crihsh of thunder
crihsh out
crihsh pad
crihsh program
crihsh the gates
crihsh wagon
crihsh wall
crash-dive
crash-dived
crash-diving
crash-dove
crash-land
crash-landing
crashing bore
criass ignorance
criatch cradle
crate maker
criater basin
criater-shaped
criave after
craw-craw
crawfish out
crawl after
crawl box
crawl in
crawl into your shell
crawl out of
crawl space
crawl with
crawl-a-bottom
crawl-up
crawler tractor
crawling peg
crayon board
crayon engraving
crazed-headed
crazier than a bedbug
crazier than a coot
crazier than a loon
crazy about
crazy bone
crazy fancy
crazy for
crazy house
crazy idea
crazy like a fox
crazy over
crazy pavement
crazy paving
crazy quilt
crazy to
crazy top
crazy-drunk
crazy-headed
crazy-looking
crazy-mad
crazy-pate
crazy-paving
crazy-work
cream beige
cream buff
cream bush
cream buyer
cream caustic
cream cheese
cream cooler
cream cracker
cream dipper
cream freezer
cream gatherer
cream gauge
cream ice
cream ladle
cream nut
cream of society
cream of tartar
cream of the crop
cream of the jest
cream pail
cream pitcher
cream puff
cream puff paste
cream puff pasted
cream puff pastry
cream sauce
cream separator
cream sherry
cream soda
cream soup
cream stirrer
cream tea
cream tester
cream tube
cream whip
cream whipper
cream-cheese
cream-color
cream-colored
cream-faced
cream-flowered
cream-slice
cream-soup cup
cream-soup spoon
cream-white
cream-yellow
crease-resistant
create a character
create a disturbance
create a riot
create a role
created being
created nature
created universe
creatine phosphate
creating again
creating once more
creating over
creation of the brain
creative ability
creative artist
creative effort
creative evolution
creative imagination
creative power
creative thought
creative writer
creative writing
creature comfort
creature comforts
creature of habit
creature of the imagination
crebri-
credence shelf
credence table
credentials committee
credenza bookcase
credenza buffet
credibility gap
credit account
credit agency
credit card
credit currency
credit hour
credit instrument
credit insurance
credit life insurance
credit limit
credit line
credit man
credit manager
credit memo
credit memorandum
credit money
credit rating
credit slip
credit squeeze
credit standing
credit to
credit to your account
credit union
credit with
credulous person
creedal statement
creek bed
creek broadbill
creek chub
creek duck
creek fern
creek grass
creek gum
creek maple
creek nettle
creek sedge
creek thatch
creep feeder
creep in
creep into a corner
creep into the good graces of
creep out of
creep up on
creep with
creep-fed
creep-feed
creep-feeding
creeper fowl
creeper tractor
creepie-peepie
creeping Charlie
creeping Jennie
creeping barberry
creeping barrage
creeping bent
creeping bent grass
creeping buttercup
creeping cinquefoil
creeping eruption
creeping fescue
creeping fowl
creeping flesh
creeping forget-me-not
creeping juniper
creeping like snail
creeping lily-turf
creeping myrtle
creeping of the flesh
creeping sheet
creeping sickness
creeping snowberry
creeping socialism
creeping thing
creeping thistle
creeping thyme
creepy-crawly
creme Yvette
creme d'amande
creme de cacao
creme de cassis
creme de la creme
creme de menthe
creme de moka
creme de noyau
cremorne bolt
crenate-leaved
crenate-toothed
crenate-
crenelated molding
creole dialect
crested dog's-tail
crested flycatcher
crested hair grass
crested iris
crested lizard
crested poppy
crested swift
crested tit
cresylic acid
cretaceo-
crevalle jack
crew chief
crew compartment
crew cut
crew haircut
crew list
crew neck
crew neckline
crew socks
crew trainer
crew-cropped
crew-neck sweater
crew-necked
crewel needle
crewel stitch
crewel yarn
crewel-work
cri de coeur
cri de guerre
cri du cour
crib biting
crib death
crib strap
crib-bit
crib-bite
crib-biter
crib-biting
crib-bitten
cribbage board
crick-crack
cricket ball
cricket bat
cricket bird
cricket chair
cricket frog
cricket ground
cricket table
cricket teal
cricket-bat willow
crico-
cried up
crim con
crime against humanity
crime against nature
crime of passion
crime passionel
crime sheet
crime wave
criminal act
criminal anthropology
criminal assault
criminal cohabitation
criminal congress
criminal contempt
criminal conversation
criminal court
criminal investigation
criminal jurisdiction
criminal law
criminal lawyer
criminal psychology
criminal syndicalism
criminal syndicalist
criminal tendency
crimping brake
crimping house
crimping iron
crimping machine
crimping pin
crimpy-haired
crimson clover
crimson flag
crimson madder
crimson sage
crimson-banded
crimson-barred
crimson-billed
crimson-carmine
crimson-colored
crimson-dyed
crimson-fronted
crimson-lined
crimson-petaled
crimson-purple
crimson-scarfed
crimson-spotted
crimson-tipped
crimson-veined
crimson-violet
crinc-
cringle to
cringle-crangle
criinkle leaf
crinkle-crangle
crinkly-haired
crinkum-crankum
crinoline stretcher
crinum lily
cr-
cripple rafter
cripple stopper
crippling attack
cris de guerre
crisis theologian
crisis theology
crisp-leaved
crisped-leaved
crisping iron
crisping pin
criss-cross
crissal thrasher
crisscross inheritance
crisscross-row
critical altitude
critical angle
critical angle of attack
critical apparatus
critical bibliography
critical constant
critical constants
critical density
critical discernment
critical edition
critical idealism
critical journal
critical juncture
critical mass
critical moment
critical niceness
critical notice
critical path analysis
critical period
critical philosophy
crooked-eyed
crooked-foot
crooked-legged
crooked-limbed
crooked-lined
crooked-lipped
crooked-nosed
crooked-pated
crooked-shouldered
crooked-stemmed
crooked-toothed
crooked-winged
crooked-wood
crookes tube
croon song
crop drier
crop duster
crop grass
crop herbs
crop hide
crop index
crop of hair
crop out
crop pasture
crop rotation
crop seed
crop shear
crop up
crop-bound
crop-dust
crop-duster
crop-dusting
crop-ear
crop-eared
crop-farming
crop-full
crop-haired
crop-headed
crop-nosed
crop-producing
crop-shaped
crop-sick
crop-tailed
croquet ball
croquet ground
croquet lawn
croquignole wave
crosier back
cross action
cross agglutination
cross aisle
cross ancre
cross axle
cross bearings
cross bedding
cross birth
cross bit
cross bitt
cross bond
cross botonée
cross bourdonée
cross brace
cross bracing
cross break
cross bridging
cross buck
cross bun
cross complaint
cross correspondence
cross counter
cross cylinder
cross drawing
cross education
cross estoile
cross facet
cross fault
cross field
cross file
cross fire
cross fitche
cross fleury
cross flute
cross flux
cross forked
cross formée
cross fourchée
cross fox
cross gammadion
cross grain
cross grignolee
cross guard
cross hair
cross hairs
cross heading
cross hilt
cross index
cross keelson
cross keys
cross kick
cross liability
cross license
cross lock
cross lode
cross mint
cross modulation
cross moline
cross multiplication
cross multiply
cross of Calvary
cross of Cleves
cross of Lorraine
cross of St Lazarus
cross of lorraine
cross off
cross order
cross out
cross over
cross patee
cross peen
cross peen hammer
cross pommee
cross potent
cross press
cross product
cross ratio
cross recercelee
cross reference
cross relation
cross remainder
cross rhythm
cross sea
cross seat
cross section
cross sighting
cross signal
cross slide
cross spider
cross springer
cross strap
cross street
cross stroke
cross swords
cross swords with
cross tag
cross talk
cross the Rubicon
cross the Stygian ferry
cross the path of
cross the threshold
cross turret
cross up
cross vault
cross vaulting
cross vein
cross vine
cross whitefish
cross wind
cross wire
cross wires
cross your heart
cross your heart and hope to die
cross your mind
cross your palm
cross your palm with
cross your path
cross-
cross-adoring
cross-aisle
cross-appeal
cross-armed
cross-banded
cross-bandaging
cross-bar
cross-beak
cross-beam
cross-bearer
cross-bearing
cross-bearings
cross-beat escapement
cross-bedded
cross-bedding
cross-bench
cross-benched
cross-benchedness
cross-bencher
cross-bias
cross-biased
cross-biassed
cross-bill
cross-bind
cross-bombard
cross-bond
cross-interrogation
cross-interrogator
cross-interrogatory
cross-invite
cross-jack
cross-jack yard
cross-joined
cross-jostle
cross-laced
cross-laminated
cross-land
cross-lap
cross-lap joint
cross-latticed
cross-leaved
cross-legged
cross-leggedly
cross-leggedness
cross-level
cross-license
cross-licensed
cross-licensing
cross-lift
cross-light
cross-link
cross-locking
cross-lot bracing
cross-lot strut
cross-lots
cross-magnetizing field
cross-marked
cross-mate
cross-mated
cross-mating
cross-multiplication
cross-out
cross-out test
cross-over
cross-patch
cross-pawl
cross-peal
cross-piece
cross-piled
cross-plough
cross-plow
cross-ply
cross-point
cross-pollen
cross-pollenize
cross-pollinate
cross-pollinated
cross-pollinating
cross-pollination
cross-pollinize
cross-post
cross-purpose
cross-purposes
cross-question
cross-questionable
cross-questioner
cross-questioning
cross-ratio
cross-ratio group
cross-reaction
cross-reading
cross-refer
cross-reference
cross-remainder
cross-road
cross-row
cross-ruff
cross-sail
cross-section
cross-section paper
cross-sectional
cross-shaped
cross-shave
cross-slide
cross-spale
cross-spall
cross-springer
cross-staff
cross-staffs
cross-star
cross-staves
cross-sterile
cross-sterility
cross-stitch
cross-stitch canvas
cross-stitching
cross-stone
cross-stratification
cross-stratified
cross-striated
cross-string
cross-stringed
cross-stringing
cross-striped
cross-strung
cross-sue
cross-surge
cross-tail
cross-tine
cross-town
cross-tree
cross-validation
cross-vault
cross-vaulted
cross-vaulting
cross-vein
cross-veined
cross-ventilate
cross-ventilation
cross-vine
cross-voting
cross-way
cross-wind
cross-wind force
cross-worder
cross-wrapped
crossbar micrometer
crossbar shot
crossbar switching
crossbolt lock
crosscut chisel
crosscut file
crosscut method
crosscut saw
crosscut-saw file
crosse check
crossed fingers
crossed in love
crossed-h
crossed-out
crossing file
crossing over
crossing over and under
crossing sweeper
crossing the bar
crossing-out
crossing-over
crossjack brace
crossjack lift
crossjack yard
crown fire
crown gall
crown gate
crown gear
crown glass
crown gold
crown graft
crown grafting
crown green
crown gum
crown head
crown imperial
crown jewels
crown knot
crown land
crown law
crown lawyer
crown leather
crown lens
crown living
crown molding
crown monkey
crown octavo
crown of thorns
crown office
crown palm
crown paper
crown piece
crown pigeon
crown plate
crown post
crown prince
crown princess
crown prosecutor
crown pulley
crown quarto
crown roast
crown rot
crown rust
crown saw
crown scab
crown sheet
crown shell
crown side
crown sparrow
crown system
crown tax
crown tile
cruise car
cruise missile
cruise ship
cruiser stern
cruiser weight
cruising missile
cruising radius
cruising speed
crumb brush
crumb of comfort
crumble into dust
crumble to dust
crupper bone
crusade for
crush bar
crush barrier
crush breccia
crush conglomerate
crush hat
crush one
crush plane
crush under an iron heel
crush your hope
crush zone
crusher sand
crushing burden
crushing defeat
crushing rejoinder
crushing rolls
crusily-fitchy
crust fold
crust fracture
crust roan
crust-hunt
crust-hunter
crust-hunting
crutch paralysis
crutch stake
crutch-cross
crutch-stick
crux ansata
crux capitata
crux commisa
crux decussata
crux gammata
crux immissa
crux ordinaria
cry aloud
cry at the top of your voice
cry back
cry back to
cry craven
cry down
cry for
cry for joy
cry for quarter
cry for the moon
cry havoc
cry of wolf
cry off
cry on
cry out
cry out against
cry out for
cry out on
cry out upon
cry over spilled
cry over spilled milk
cry pax
cry quits
cry shame upon
cry sour grapes
cry stinking fish
cry to
cry up
cry upon
cry wolf
cry your eyes
cry your eyes out
cry yourself blind
cry-
crying evil
crying shame
cryo-
cryo-aerotherapy
cryo-pump
cryolite glass
crypt-
cryptic mimicry
crypto-
cryptogenic epilepsy
cryptogenic infection
crystal ball
crystal carbonate
crystal class
crystal counter
crystal detector
crystal flower
crystal form
crystal gazer
crystal gazing
crystal glass
crystal gray
crystal habit
crystal lattice
crystal malt
crystal microphone
crystal pickup
crystal rectifier
crystal sand
crystal set
crystal system
crystal tea
crystal vinegar
crystal violet
crystal vision
crystal water
crystal-clear
crystal-clearness
crystal-dropping
crystal-flowing
crystal-gazer
crystal-girded
crystal-lattice constant
crystal-leaved
crystal-palace blue
crystal-palace green
crystal-producing
crystal-smooth
crystal-streaming
crystal-winged
crystalline lens
crystallo-
crystallographic axis
cteno-
cub hunting
cub reporter
cub scout
cub shark
cub-drawn
cub-hunting
cuban heel
cubbridge head
cube ore
cube root
cube spar
cube steak
cube sugar
cube-shaped
cubeb camphor
cubeb oil
cubed steak
cubi-
cubic foot
cubic measure
cubic meter
cubic unit
cubic yard
cubical atom
cubist poetry
cubit arm
cubital furrow
cubito-
cubo-
cubo-octahedral
cubo-octahedron
cuboidal epithelium
cuck-stool
cucking stool
cucking-stool
cuckold dock
cuckold's knot
cuckold's neck
cuckoo bee
cuckoo clock
cuckoo clover
cuckoo dove
cuckoo falcon
cuckoo fly
cuckoo froth
cuckoo gillyflower
cuckoo grass
cuckoo hawk
cuckoo lamb
cuckoo orchis
cuckoo owl
cuckoo ray
cuckoo shoe
cuckoo shrike
cuckoo sorrel
cuckoo spit
cuckoo wasp
cuckoo wrasse
cuckoo's meat
cuckoo-babies
cuckoo-bread
cuckoo-bud
cuckoo-button
cuckoo-flower
cuckoo-fly
cuckoo-fool
cuckoo-meat
cuckoo-pint
cuckoo-pintle
cuckoo-shrike
cuckoo-spit
cuckoo-spittle
cucumber beetle
cucumber family
cucumber fish
cucumber flea beetle
cucumber fly
cucumber green
cucumber melon
cucumber mildew
cucumber mosaic
cucumber root
cucumber scab
cucumber tree
cucurbit mosaic
cucurbit wilt
cud-chewing
cuddle up
cuddy heel
cudgel play
cudgel your brains
cudweed mugwort
cue ball
cue bid
cue owl
cue rest
cue sheet
cue word
cue-bid
cue-bidden
cue-bidding
cue-owl
cuff button
cuff ironer
cuff link
cui bono
cui-ui
cuir-bouilli
cul de lampe
cul-de-four
cul-de-lampe
cul-de-sac
culilawan bark
culinary art
culinary artist
culinary concoction
culinary masterpiece
culinary preparation
culinary science
cull board
cull out
cullin stone
culm dump
culm measures
culpable negligence
culpably negligent
culs de lampe
cult-title
cultivate the friendship of
cultivate the soil
cultivated land
cultivated taste
cultivation of the mind
cultivator shield
cultural anthropologist
cultural anthropology
cultural change
cultural community
cultural drift
cultural lag
cultural-nomadic
culture area
culture center
culture complex
culture conflict
culture contact
culture drift
culture epoch
culture factor
culture flask
culture fluid
culture hero
culture lag
culture medium
culture mixing
culture myth
culture organism
culture pattern
culture pearl
culture phenomenon
culture plate
culture sequence
culture shock
culture stage
culture system
culture trait
culture vulture
culture word
cultured pearl
cultus cod
cultus image
cultus-cod
culver hole
cum coupon
cum dividend
cum grano salis
cum laude
cum multis aliis
cum warrants
cumara nut
cumin oil
cummin oil
cumu-cirro-stratus
cumul-
cumular-spherulite
cumulative distribution function
cumulative dividend
cumulative evidence
cumulative preferred stock
cumulative scoring
cumulative system
cumulative voting
cumulato-
cumulo-
cumulo-cirro-stratus
cumulo-cirrus
cumulo-nimbus
cumulo-stratus
cumulo-volcano
cumulonimbus calvus
cumulonimbus capillatus
cumulus cloud
cumulus congestus
cumulus fractus
cumulus humilis
cumulus mediocris
cumulus oophorus
cuneate lobe
cuneo-
cunning as a fox
cunning as a serpent
cunning person
cup and ball
cup and cover
cup barometer
cup bell
cup coral
cup custard
cup drill
cup escutcheon
cup fern
cup fungus
cup grease
cup hole
cup hook
cup joint
cup leather
cup lichen
cup maker
cup marker
cup moss
cup mushroom
cup nutseed
cup of Elijah
cup of bitterness
cup of tea
cup packing leather
cup plant
cup sculpture
cup set
cup shake
cup sponge
cup tie
cup turning
cup valve
cup washer
cup-and-saucer vine
cup-bearer
cup-headed
curly top
curly-coated
curly-coated retriever
curly-haired
curly-headed
curly-locked
curly-pate
curly-pated
curly-polled
curly-toed
currant aphid
currant borer
currant bush
currant clearwing
currant fruit fly
currant leaf spot
currant moth
currant red
currant rust
currant sawfly
currant spanworm
currant stem girdler
currant tomato
currant tree
currant wine
currant worm
currant-leaf
currency bond
currency doctrine
currency metals
currency note
currency principle
current account
current assets
current breaker
current cost
current density
current electricity
current expenses
current gain
current gauge
current income bond
current indicator
current intensity
current liabilities
current limiter
current mark
current meter
current mill
current of air
current of events
current of fashion
current of ideas
current of thought
current of time
current price
current pulse
current quotation
current ratio
current regulator
current relay
current ripple
current saying
current tap
current transformer
current wheel
current yield
current-control circuit
current-limiting reactor
currente calamo
curricula vitae
curriculum vitae
curry favor
curry powder
curry puff
curry sauce
curry-comb
curry-favel
curry-leaf tree
currycomb file
curse and swear
curse up hill and down dale
curse with bell
curse word
curse your folly
curse, the
cursing stone
cursing well
cursive epilepsy
cursive hand
cursory inspection
curt-hose
curtail expenses
curtail step
curtail-step
curtain angle
curtain aurora
curtain board
curtain call
curtain dam
curtain dryer
curtain drying
curtain fire
curtain folder
curtain frame
curtain framer
curtain hook
curtain knitter
curtain lecture
curtain lifter
curtain light
curtain line
curtain music
curtain net
curtain pin
curtain pole
curtain raiser
curtain ring
curtain rod
curtain roller
curtain shutter
curtain speech
curtain stretcher
curtain tune
curtain wall
curtain-raiser
curtains of fog and iron
curtal ax
curtal axe
curtal-ax
curtesy initiate
curtle ax
curule chair
curvature invariant
curvature of field
curvature tensor
curve ball
curve fitting
curve of buoyancy
curve of displacement
curve of flotation
curve of loads
curve of resistance
curve of weights
curve-ball
curve-billed
curve-drawing meter
curve-fruit
curve-veined
curved-fruit
curved-horned
curved-veined
curvi-
curviliner coordinate system
cusco bark
cusco china
cusco-bark
cuscus oil
cush-cush
cushew-bird
cushing's disease
cushion aloe
cushion block
cushion capital
cushion carom
cushion cut
cushion dance
cushion felt
cushion filler
cushion fillings
cushion head
cushion iri

cushion maker
cushion pink
cushion plant
cushion rafter
cushion scale
cushion shot
cushion sole
cushion spurge
cushion star
cushion stitch
cushion tire
cushion-footed
cushion-shaped
cushion-tired
cusk eel
cusk-eel
cusk-eels
cusp locus
cusp-shaped
cusparia bark
cuspidate tooth
cuss like a sailor
cuss out
cuss word
cussing-out
custard apple
custard cup
custard glass
custard pie
custard powder
custard-cups
custodes morum
custom builder
custom hatching
custom house
custom mill
custom tailor
custom work
custom worker
custom-built
custom-cut
custom-house
custom-made
custom-tailored
customer agent
customer ownership
customer's broker
customer's man
customhouse broker
customs bond
customs broker
customs duty
customs house
customs union
customs-exempt
customs-house
custos morum
custos rotulorum
cut a caper
cut a corner
cut a crab
cut a dash
cut a dido
cut a feather
cut a figure
cut a figure in society
cut a lobster
cut a melon
cut a rug
cut a swath
cut across
cut adrift
cut along
cut and dried
cut and run
cut and thrust
cut and try
cut apart
cut at
cut away
cut back
cut both ways
cut capers
cut corners
cut crosswise
cut dead
cut diagonally
cut direct
cut down
cut down expenses
cut down on
cut down to size
cut drop
cut fine
cut glass
cut hunter
cut ice
cut in
cut in two
cut into
cut it
cut it fine
cut it out
cut loose
cut lots
cut nail
cut no ice
cut of your jib
cut off
cut off short
cut off with a shilling
cut off without a cent
cut off your spurs
cut open
cut out
cut out for
cut out of your will
cut plug
cut price
cut prices
cut rate
cut short
cut some ice
cut stone
cut string
cut the Gordian knot
cut the cards
cut the deck
cut the first turf
cut the ground from under
cut the ground from under one
cut the hair
cut the knot
cut the matter short
cut the melon
cut the mustard
cut the pie
cut the throat
cut through
cut time
cut to
cut to pieces
cut to ribbons
cut to the heart
cut to the quick
cut transversely
cut under
cut up
cut up bad
cut up nasty
cut up root and branch
cut up rough
cut velvet
cut work out for
cut you short
cut your eyeteeth
cut your eyeteeth on
cut your losses
cut your own throat
cut your teeth
cut your teeth on
cut your throat
cut your wisdom teeth
cut-and-cover
cut-and-dried
cut-and-dry
cut-and-try
cut-away
cut-back
cut-card work
cut-down
cut-finger
cut-flight conveyer
cut-glass
cut-grass
cut-in
cut-leaf
cut-leaved
cut-off
cut-out
cut-paper
cut-price
cut-rate
cut-through
cut-toothed
cut-under
cut-up technique
cut-work
cutaneous quittor
cutaneous sense
cutaway coat
cute as a bug’s ear
cute chick
cute trick
cutes verae
cuticula dentis
cutie pie
cutis anserina
cutis vera
cutlass fish
cutleaf blackberry
cutlery buffer
cutlips minnow
cutoff drainage
cutoff point
cutoff saw
cutoff valve
cutout switch
cutter arbor
cutter bar
cutter block
cutter brig
cutter gig
cutter rig
cutter sloop
cutter yacht
cutter-built
cutter-down
cutter-gig
cutter-off
cutter-out
cutter-rigged
cutter-up
cutthroat competition
cutthroat contract
cutthroat grass
cutthroat razor
cutthroat trout
cutting almond
cutting angle
cutting blowpipe
cutting board
cutting compound
cutting die
cutting drift
cutting edge
cutting fluid
cutting grass
cutting horse
cutting in two
cutting lubricant
cutting machine
cutting of supply lines
cutting oil
cutting out
cutting pliers
cutting press
cutting punch
cutting remark
cutting rule
cutting sand
cutting shoe
cutting stage
cutting the pie
cutting torch
cutting words
cutting your losses
cutting-off tool
cuttle-bone
cuttle-fish
cutty sark
cutty stool
cutty-stool
cutwater bow
cutwork lace
cy pres
cya-
cy an blue
cyan-
cy an-blue
cyanamide process
cyani flower
cyanic acid
cyanide gas
cyanide mill
cyanide process
cyanine blue
cyano group
cyano radical
cyano-
cyanogen bromide
cyanogen chloride
cyanuric acid
cybernated factory
cybernetic control
cybernetic technologist
cycad fern
cycas family
eyel-
cyclamen aldehyde
cyclamen mite
cycle billing
cycle form
cycle of erosion
cycle of indiction
cyclic AMP
cyclic GMP
cyclic group
cyclic neutropenia
cyclic pitch lever
cyclic shift
cyclical stock
cyclical unemployment
cyclo-
cyclo-cross
cycloid personality
cycloidal gear
cycloidal propulsion
cyclone cellar
cyclone center
cyclone collector
cyclone furnace
cyclone juice
cyclone separator
cyclone-proof
cyclopean concrete
cyclothymic personality
cylinder block
cylinder bore
cylinder desk
cylinder escapement
cylinder front
cylinder gate
cylinder glass
cylinder grinder
cylinder head
cylinder machine
cylinder metal
cylinder mill
cylinder oil
cylinder planer
cylinder press
cylinder pressman
cylinder reamer
cylinder saw
cylinder scale
cylinder seal
cylinder sinker
cylinder slasher
cylinder snake
cylinder splitter
cylinder-bored
cylinder-boring
cylinder-dried
cylinder-grinding
cylinder-shaped
cylindric-campanulate
cylindric-fusiform
cylindric-oblong
cylindric-ovoid
cylindric-subulate
cylindrical coefficient
cylindrical coordinates
cylindrical projection
cylindro-
cyma recta
cyma reversa
cyne-
cynic spasm
cyno-
cypress grass
cypress green
cypress knee
cypress koromiko
cypress lawn
cypress moss
cypress oil
cypress pine
cypress spurge
cypress thatch
cypress vine
cypress-leaf oil
cyprus black as e'er was crow
cyprus cat
cyrilla family
cyrto-
cyst-
cysti-
cystic fibrosis
cysto-
cyt-
cyto-
cytochrome reductase
cytochrome system
cytomegalic inclusion disease
d day
d layer
d region
d'Albert
d'Alembert
d'Alembert's test
d'Arblay
d'Holbach
d'Indy
d-
d-c
d-glucose
dB
dBV
dBW
dBa
dBm
dBm/m
dBrn
da Vinci
da capo
dab hand
daber locks
da-ctyl-
da-ctylic hexa-meter
da-ctylio-
da-ctylo-
dad-blamed
dad-blasted
dad-burned
daddy longlegs
daddy-long-legs
daddy-longlegs
daddynut tree
dado head
dado in
dado plane
dado rail
daer-stock
da-fodil garlic
da-fodil lily
da-fodil yellow
daft days
dag-lock
dag-tailed
dagger board
dagger cocklebur
dagger fern
dagger knee
dagger money
dagger moth
dagger plank
dagger plant
dagger wood
dagger-shaped
daggle-tail
daghesh forte
daghesh lene
dahl sauce
dahlia carmine
dahlia purple
dahlia sugar
dahlia sunflower
dahlia wartlet
dahoon holly
da-i-sho
da-i-sho-no-soroimono
dail eireann
daily and hourly
daily bread
daily communicant
daily double
daily dozen
daily grind
daily newspaper
daily round
daily routine
daily-breeder
dainty-eared
dainty-fingered
dainty-limbed
dainty-mouthed
dainty-tongued
dainty-toothed
dairy barn
dairy bred
dairy butter
dairy cattle
dairy cheese
dairy cooler
dairy country
dairy cow
dairy cows
dairy farm
dairy farmer
dairy farming
dairy house
dairy husbandry
dairy lunch
dairy milk
dairy product
dairy products
dairy room
dairy salt
dairy school
dairy society
dairy truck
dairy wagon
dairy-cooling
dairy-farming
dairy-fed
dairy-made
daisy bush
daisy chain
daisy cutter
damning evidence
damning with faint praise
damp box
damp course
damp down
damp off
damp sap
damp the spirits
damp-proof course
damp-stained
damp-worn
dampen the spirits
damper action
damper block
damper crank
damper head
damper pedal
damper rail
damper spoon
damper stop
damper valve
damper winding
damping constant
damping factor
damping machine
damping off
damping-off
damsel fly
damsel-errant
damson cheese
damson pie
damson plum
damson wine
dan buoy
dance attendance
dance attendance on
dance attendance upon
dance band
dance critic
dance drama
dance favor
dance floor
dance fly
dance for joy
dance form
dance hall
dance house
dance leader
dance music
dance notation
dance of death
dance on a hot griddle
dance on air
dance on the razor's edge
dance palace
dance pantomime
dance program
dance rhythm
dance society
dance song
dance step
dance steps
dance the war dance
dance to another tune
dance tune
dance upon nothing
dance-loving
dancing assembly
dancing dervish
dancing disease
dancing floor
dancing girl
dancing hall
dancing lesson
dancing light
dancing mania
dancing master
dancing match
dancing mistress
dancing partner
dancing party
dancing pavilion
dancing room
dancing school
dancing step
dancing winder
dancing-girl
dancing-girls
dandelion digger
dandelion greens
dandelion puller
dandelion wine
dandelion-leaved
dandie dinmont
dandy brush
dandy cart
dandy fever
dandy roll
dandy roller
dandy-brush
dandy-cock
dandy-hen
dandy-horse
dandy-line
dandy-roller
dane-law
danes'-blood
danger angle
danger ball
danger bearing
danger flag
danger instinct
danger line
danger money
danger point
danger sign
danger signal
danger to health
danger whistle
danger zone
danger-fearing
danger-fraught
danger-free
danger-loving
danger-teaching
dangerous drug
dangerous ground
dangle before one
dangle before the eyes
dangling modifier
dangling participle
danish pastry
danke schon
danse du ventre
danse macabre
danses du ventre
danseur noble
danseurs nobles
daoine sithe
dap joint
dap-dap
daphne pink
daphne red
dapple-bay
dapple-gray
dapple-grey
dappled-gray
darby and joan
dare not
dare to
dare-base
dare-devil
daring imagination
dariole mould
dark Cornish
dark adaptation
dark age
dark ages
dark and gloomy
dark as a wolf's mouth
dark as night
dark as pitch
dark beer
dark bread
dark chocolate
dark cloud
dark clouds
dark comedy
dark corner
dark depths
dark glasses
dark horse
dark lantern
dark lightning
dark meat
dark mineral
dark nebula
dark of night
dark of the moon
dark reaction
dark secret
dark segment
dark shade
dark skinned
dark star
dark-adapted
dark-bearded
dark-blue
dark-bosomed
dark-boughed
dark-breasted
dark-browed
dark-closed
dark-colored
dark-complexioned
dark-embrowned
dark-eyed
dark-eyed night
dark-featured
dark-field
dark-field illumination
dark-field microscope
dark-fired
dark-flowing
dark-fringed
dark-glancing
dark-gray
dark-green
dark-grown
dark-haired
dark-hued
dark-hulled
dark-lantern
dark-leaved
dark-line spectrum
dark-minded
dark-orange
dark-prisoned
dark-red
dark-rolling
dark-shining
dark-sighted
dark-skinned
dark-splendid
dark-stemmed
dark-suited
dark-trace tube
dark-veiled
dark-veined
dark-visaged
dark-working
darken over
darken your door
darkened mind
darkling beetle
darkness visible
darkness which may be felt
darkroom timer
darktrace tube
darn ar durn
data system
data transmission
data-gathering
data-handling system
data-input system
data-interpreting system
data-reduction system
data at
data bar
data brandy
data coffee
data fever
data fig
data from
data grove
data line
data mussel
data of record
data palm
data plum
data shell
data slip
data stamp
data sugar
data tree
data wine
data-bearing
data-stamp
data-stamping
dating nail
dative bond
datum line
datum plane
datum point
daughter element
daughter of Eve
daughter of joy
daughter of the dawn
daughter-in-law
daughters-in-law
davenport table
davy jones
davy jones's locker
davy lamp
dawn chorus
dawn dew
dawn goddess
dawn on
dawn patrol
dawn redwood
dawn upon one
dawn-illumined
dawn-tinted
day after day
day and night
day bed
day bell
day blindness
day boy
day breeze
day by day
day camp
day clock
day clothes
day coach
day degree
day drift
day fireman
day fishing
day gang
day gate
day glow
day god
day gown
day guest
day hand
day hater
day haul
day hour
day house
day in
day in and day out
day in court
day in day out
day jasmine
day journeying
day labor
day laborer
day labour
day letter
day lily
day loan
day man
day name
day nettle
day neutral
day nurse
day nursery
day of atonement
day of doom
day of festivities
day of reckoning
day of rest
day off
day out
day owl
day rate
day reflection
day release
day return
day room
day rule
day scholar
day school
day servant
day shape
day shift
day sight
day sleeper
day slumber
day tank
day task
day trip
day vision
day waiter
day watchman
day water
day wind
day's work
day's-work
day-and-night
day-appearing
day-bed
day-blindness
day-bright
day-by-day
day-care center
day-clean
day-clear
day-dawn
day-day
day-detesting
day-devouring
day-dispensing
dazzle painting
dazzle system
dazzling light
de Beauvoir
de Broglie
de Broglie equation
de Broglie wave
de Broglie waves
de Gaulle
de Gaullism
de Kooning
de Lesseps
de Moivre
de Moivre's theorem
de Sica
de Valera
de Villiers
de Wint
de bene esse
de bonis non administratis
de bonne volonté
de die in diem
de facto
de fide
de fond en comble
de gaullism
de gustibus non est disputandum
de haut en bas
de jure
de longue haleine
de los Angeles
de luxe
de mal en pis
de mortuis nil nisi bonum
de novo
de plano
de profundis
de proprio motu
de rerum natura
de rien
de rigueur
de stijl
de trop
de-
de- prestige
de-Stalinization
de-Stalinize
de-Stalinized
de-Stalinizing
de-aerate
de-aereate
de-afforest
de-articulate
de-articulation
de-christianize
de-educate
de-electrify
de-electrization
de-electrize
de-emanate
de-emphases
de-emphasis
de-emphasize
de-emphasized
de-emphasizing
de-emulsibility
de-emulsify
de-emulsivity
de-energize
de-escalate
de-escalation
de-ethnicization
de-ethicize
de-excite
de-excited
de-excit ing
de-ice
de-icer
de-insularize
de-ossify
de-pauperize
de-russianize
de-saxonize
de-semiticize
dea-nettle
deacon seat
de above the ears
de against
de ahead
de and buried
de and done for
de and gone
de as a doornail
de as a herring
de as mutton
dead asleep
dead band
dead beat
dead between the ears
dead blackout
dead body
dead calm
dead center
dead centre
dead certainty
dead circuit
dead colour
dead duck
dead end
dead firing
dead flat
dead force
dead from the neck up
dead giveaway
dead hand
dead hand of the past
dead heat
dead in the Lord
dead language
dead leaf
dead letter
dead level
dead lift
dead load
dead lock
dead loss
dead low tide
dead low water
dead mail
dead man
dead man's control
dead man's fingers
dead man's hand
dead man's handle
dead march
dead matter
dead men
dead metal
dead muzzler
dead of night
dead on your feet
dead palsy
dead pan
dead past
dead pay
dead person
dead persons
dead pledge
dead point
dead reckoning
dead right
dead ringer
dead run
dead sea
dead season
dead set
dead set at
dead set on
dead sheave
dead shot
dead slow
dead soldier
dead space
dead spindle
dead spot
dead stand
dead stick
dead stock
dead stop
dead storage
dead straight
dead sure
dead time
dead to
dead to rights
dead to shame
dead to the world
dead wall
dead water
dead weight
dead well
dead woman
dead wood
dead zone
dead-afraid
dead-air
dead-air space
dead-alive
dead-alivism
dead-and-alive
dead-anneal
dead-arm
dead-ball line
dead-blanced
dead-born
dead-bright
dead-burn
dead-center
dead-centre
dead-cold
dead-color
dead-colored
dead-dip
dead-doing
dead-drifting
dead-drunken
dead-drunk
dead-drunkenness
dead-end
dead-end street
dead-eye
dead-face
dead-front
dead-frozen
dead-grown
dead-hand
dead-hearted
dead-heat
dead-heater
dead-heavy
dead-kill
dead-leaf
dead-letter
dead-light
dead-line
dead-live
dead-man control
dead-man's float
dead-melt
dead-nettle
dead-point
dead-rise
dead-rise line
dead-roast
dead-seeming
dead-set
dead-sick
dead-smooth
dead-soft
dead-stick
dead-stick landing
dead-stick loop
dead-still
dead-stroke
dead-stroke hammer
dead-struck
dead-sure thing
dead-tired
dead-tongue
dead-weight
dead-weight safety valve
dead-work
deadbeat escapement
deaden the pain
deadly nightshade
deadly pale
deadly pallor
deadly sin
deadly sin of envy
deadly sins
deadly weapons
deadweight capacity
deadweight tonnage
deadwood fence
dead and dumb
dead as a door
dead as a doorknob
dead as a doornail
dead as a post
dead as a stone
dead as an adder
dead ears
dead to
dead to reason
dead-and-dumb
dead-and-dumb alphabet
dead-and-dumb person
dead-dumb
dead-dumbness
dead-eared
dead-minded
dead-mute
dead-muteness
dead-mutism
deal a blow
deal a blow at
deal a check to
deal a crushing defeat
deal a deathblow
deal a deathblow to
deal a knockout blow to
deal a smashing defeat
deal board
deal by
deal carrier
deal destruction
deal hard measure to
deal hardly with
deal harshly with
deal illicitly
deal in
deal in abstractions
deal in commercial paper
deal in futures
deal in generalities
deal in money
deal in the marvelous
deal merchant
deal off
deal off the bottom of the deck
deal out
deal porter
deal runner
deal someone in
deal table
deal with
deal worker
deal yard
deal-board
dealer acceptance
dealer allowance
dealer help
dealing box
dealing death
dealing in commercial paper
dealings of providence
dean of guild
dean of men
dean of the faculty
dean of women
dean's list
dear as the apple of your eye
dear at any price
dear joy
dear me
dear one
dear to your heart
dear-bought
dear-cut
dearest wish
dearly beloved
dearly love
dearly love to
dearth of ideas
dearth adder
dearth agonies
dearth agony
dearth alder
dearth angel
dearth angle
dearth bell
dearth benefit
dearth bill
dearth blast
dearth bolt
dearth bone
dearth by your own hand
dearth camas
dearth camass
dearth candle
dearth cap
dearth cell
dearth certificate
dearth chair
dearth chamber
dearth chime
dearth cloth
dearth cord
dearth cry
dearth cup
dearth damp
dearth dance
dearth defiance
dearth demon
dearth dew
dearth dirge
dearth drink
dearth drum
dearth duty
dearth examiner
dearth feint
dearth feud
dearth fire
dearth flame
death grant
deadth grapple
deadth grip
defaith groan
defaith herb
defaith hour
defaith house
defaith hymn
defaith instinct
defaith knell
defaith light
defaith list
defaith mask
defaith note
defaith notice
defaith of the heart
defaith of the soul
defaith pang
death peal
defaith penalty
defaith penny
defaith point
defaith prayer
defaith rate
defaith rattle
defaith ray
defaith roll
defaith rope
defaith row
defaith ruckle
defaith seat
defaith sentence
death shriek
defaith sleep
defaith song
defaith stab
death stroke
defaith struggle
defaith sweat
defaith symbol
defaith tax
defaith thirst
defaith throe
defaith throes
defaith tick
defaith toll
death trance
defaith vacancy
death warrant
deadweight
death wish
death wraith
death's bright angel
death's-face
death's-head
death's-head moth
death's-herb
death-bearing
death-bed
death-begirt
death-bell
death-bird
death-black
death-blow
death-boding
death-braving
death-bringing
death-cold
death-come-quickly
death-counterfeiting
death-darting
death-day
death-deaf
death-deafened
death-dealing
death-deep
death-defying
death-devoted
death-dewed
death-divided
death-divining
death-doing
death-doom
death-due
death-fire
death-laden
death-marked
death-pale
death-polluted
death-practiced
death-shadowed
death-sheeted
death-sick
death-stiffening
death-stricken
death-struck
death-subduing death-swimming death-threatening death-throe death-warrant death-watch death-weary death-winged death-worm death-worthy death-wound death-wounded deathbed deed deathbed repentance deathlike calm deathlike silence deathly hue deathly pale deathly pallor deathwatch beetle debase yourself debating point debenture bond debenture stock debit ticket debonis non debris glacier debt book debt limit debt of honor debt of honour debt of nature debt service debt slave debt slavery debtor and creditor account debtor's prison debts recovery court debutante bob deca- decade ring decanal side decanedioic acid decanoic acid decapod locomotive decarbonized iron decay coefficient decay of memory
decay series
deceased, the
decedent estate
deceive yourself
deceleration parachute
decem-
decception bed
decension table
deceptive cadence
deci-
decide against
decide between
decide upon
decided resemblance
decided upon
deciding vote
deciduous plant
deciduous tooth
decimal candle
decimal classification
decimal currency
decimal fraction
decimal place
decimal point
decimal system
decimo-sexta
decision procedure
decision-making
decisive defeat
decisive moment
deck beam
deck block
deck board
deck bolt
deck boy
deck bridge
deck car
deck cargo
deck chair
deck curb
deck department
deck elevator
deck feather
deck floor
deck gang
deck gun
deck hand
deck hook
deck horse
deck iron
deck key
deck kicker
deck light
deck load
deck log
deck molding
deck nail
deck of cigarettes
deck officer
deck out
deck over
deck passage
deck passenger
deck pipe
deck plate
deck plating
deck pump
deck quoits
deck roof
deck seat
deck sheet
deck steward
deck stool
deck stopper
deck stringer
deck tackle
deck tennis
deck transom
deck turret
deck up
deck watch
deck-piercing
deck-piercing shell
decked out
decking chain
deckle edge
deckle strap
deckle-edged
declare against
declaration of faith
declaration of policy
declaration of war
declaratory judgment
declare a dividend
declare a moratorium
declare a recess
declare lawful
declare null and void
declare off
declare roundly
declare to God
declare war
declare yourself
declare yourself a party
declare yourself against
declaring yourself in
decimation axis
decimation circle
decimation compass
decimation parallel
decline and fall
decline of day
decline of life
decline politely
decline to accept
decline with thanks
declined with thanks
decreasing market
decreasing years
decoction process
decoding servomechanism
decomposition potential
decompression chamber
decompression sickness
decorated hero
decoration of honor
decorative composition
decorative lighting
decorative painting
decorative sculpture
decorative style
decorative surgery
decorator color
decoy duck
decoy-duck
decrease in size
decrease in temperature
decree absolute
decree dative
decree law
decree nisi
decree of nullity
decree-law
decrescent moon
decret loi
decubitus ulcer
decuman gate
dedendum circle
dedicate oneself to
dedicate to
dedicate yourself to
dedication to duty
deductible clause
deductive power
deductive reasoning
deed of arrangement
deed of indemnity
deed of release
deed of trust
deed over
 deed poll
 deed without a name
deeem trustworthy
dee as China
dee as a well
dee as hell
dee as the ocean
dee as the sea
deed asleep
deed bass
deed black
deed fat
deed floor
deed freeze
deed freezing
deed fryer
deed future
deed in debt
deed into
deed kiss
deed knowledge
deed mourning
deed night
deed sea
deed secret
deed sense
deed sensibility
deed six
deed sleep
deed space
deed structure
deed study
deep therapy
deep thought
deep water
deep, the
deep-affected
deep-affrighted
deep-asleep
deep-bellied
deep-biting
deep-blue
deep-bodied
deep-bosomed
deep-brained
deep-breasted
deep-breathing
deep-brooding
deep-browed
deep-buried
deep-chested
deep-colored
deep-contemplative
deep-crimsoned
deep-cut
deep-damasked
deep-discerning
deep-discount bond
deep-dish
deep-dish pie
deep-domed
deep-down
deep-downness
deep-draw
deep-drawing
deep-drawn
deep-drenched
deep-drew
deep-drinking
deep-drunk
deep-dye
deep-dyed
deep-dyed falsehood
deep-echoing
deep-embattled
deep-engraven
deep-etch plate
deep-eyed
deep-faced
deep-felt
deep-fermenting
deep-fetched
deep-fixed
deep-flewed
deep-freeze
deep-freezed
deep-freezer
deep-freezing
deep-fried
deep-froze
deep-frozen
deep-fry
deep-frying
deep-going
deep-green
deep-groaning
deep-grounded
deep-grown
deep-kiss
deep-laden
deep-laid
deep-laid plot
deep-laid scheme
deep-level mine
deep-lunged
deep-lying
deep-mouthed
deep-musing
deep-naked
deep-persuading
deep-piled
deep-pitched
deep-pointed
deep-pondering
deep-premeditated
deep-questioning
deep-reaching
deep-read
deep-revolving
deep-rooted
deep-rooted belief
deep-rootedness
deep-rooting
deep-sea
deep-sea diver
deep-sea diving
deep-sea lead
deep-sea line
deep-sea man
deep-sea smelt
deep-searching
deep-seated
deep-seatedness
deep-set
deep-settled
deep-sided
deep-sighted
deep-sinking
deep-six
deep-skirted
deep-sore
deep-sounding
deep-space ship
deep-stapled
deep-sunk
deep-sunken
deep-sweet
deep-sworn
deep-tangled
deep-thinking
deep-thoughted
deep-thrilling
deep-throated
deep-toned
deep-transported
deep-trenching
deep-troubled
deep-udder
deep-udder
deep-vaulted
deep-versed
deep-voiced
deep-waisted
deep-water
deep-worn
deep-wounded
deepest feelings
deepest mind
deepest recesses
deepliy involved
deepliy involved in debt
deepwater sailor
deer brush
deer cabbage
deer call
deer cart
deer fence
deer fern
deer fly
deer fly fever
deer foot
deer forest
deer grass
deer hide
deer keeper
deer laurel
deer lick
deer mouse
deer park
deer tick
deer tiger
deer vine
deer's-tongue
deer-coloured
deer-eyed
deer-fly fever
deer-hair
deer-hound
deer-lick
deer-mouse
deer-neck
deer-staiker
deer-stealer
deerhorn cactus
deerwort boneset
defamation of character
defeat expectation
defeat hope
defeat of time
defeat time
defeat utterly
defeated candidate
defect of sight
defect of vision
defective eye
defective eyes
defective number
defective verb
defective vision
defective year
defence mechanism
defend tooth and nail
defender of the bond
defender of the marriage bond
defending line
deflecting bar
deflecting force
deflecting torque
deflection angle
deflection generator
deflection method
deflection offset
deflection scale
deflection yoke
deflection-modulated display
deformation curve
deformation ellipsoid
deformed bar
defray expenses
deft-fingered
defy authority
defy danger
defy time
degenerate state
degenerate states
degeneration disease
degenerative arthritis
degenerative change
degenerative disease
degenerative joint disease
degradation of energy
degrade yourself
degree day
degree of freedom
degree of frost
degree of variance
degree-cut
degree-day
degree-granting institution
degrees of comparison
dehydrated alcohol
dehydrated foods
dei gratia
dei plenus
deion circuit breaker
diesel engine
deities of fertility
deities of justice
deities of the household
deities of the nether world
deity of nether world
deha vu
dejeuner a la fourchette
deka-
del Sarto
del credere
del credere agent
delay line
delay screen
delay-action
delayed action
delayed alpha particle
delayed drop
delayed neutron
delayed reaction
delayed speech
delayed-action
delayed-action bomb
delayed-action fuse
delaying action
deleb palm
delebated authority
delenda est Carthago
delft blue
delft ware
deliberate aggravation
deliberate over
deliberate stages
deliberate upon
deliberately provoked
deliberative assembly
deliberative body
delicate distinction
delicate health
delicate issue
delicate-handed
delicately weak
delight in
delight the palate
delimited field
delineating in the imagination
delirium alcoholicum
delirium ebriositatis
delirium mussitans
delirium tremens
deliver a lecture
deliver an address
deliver an ultimatum
deliver judgment
deliver over
deliver up your arms
deliver your charge to the jury
deliver yourself
deliver yourself from
delivered price
delivery boy
delivery order
delivery price
delivery room
delivery ticket
delivery truck
delivery van
della Robbia
della crusca
delph blue
delta connection
delta current
delta function
delta iron
delta plain
delta plateau
delta potential
delta ray
delta rhythm
delta winding
delta wing
delta-planform jet
delta-shaped
delude yourself
deluded belief
deluge set
delusion of grandeur
delusion of persecution
delusion of reference
delve for
delve into
demand attention
demand bid
demand bill
demand curve
demand deposit
demand draft
demand for
demand limiter
demand loan
demand meter
demand note
demand payment
demand rate
demand-load limiter
demand-pull inflation
demean yourself
dementia a potu
dementia paralytica
dementia praecox
demerit mark
demesne farm
demi-
demi-batn
demi-cannon
demi-culverin
demi-hunter
demi-incognito
demi-island
demi-islander
demi-jour
demi-lance
demi-landau
demi-mondaine
demi-monde
demi-ostade
demi-paradise
demi-pension
demi-pique
demi-puppet
demi-rep
demi-sang
demi-season
demi-sec
demi-sel
demi-semi
demi-sheath
demi-vill
demilitarized zone
demipirouette volt
demo-
democrat wagon
democratic centralism
democratic-republican
demoiselle crane
demolition bomb
demolition derby
demolition rocket
demon star
demon worship
demon worshiper
demonic energy
demono-
demonstrable existence
demonstrable fact
demonstrate against
demonstrate respect for
demonstrate your ability
demotic character
demy octavo
demy quarto
den chief
den dad
den mother
den of iniquity
den of thieves
den of vice
den-tree
denatured alcohol
dendr-
dendritic drainage pattern
dendro-
dene-hole
dengue fever
denial of due credit
denial of proper credit
denied due credit
denied proper credit
denied to
denim jacket
denizen of the deep
denizens of hell
denizens of the air
denizens of the forest
denizens of the jungle
denizens of the wild
denominate number
denominational school
dense body
dense-flowered
dense-headed
dense-minded
dense-wooded
density altitude
density control
density current
density function
density indicator
density rule
dent corn
dent-
dental bridge
dental corps
dental floss
dental gold
dental hygiene
dental hygienist
dental length
dental lisp
dental orthopaedics
dental plaque
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
dentary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinuate
dentato-
denti-
dentil band
dentist’s chair
dento-
dened of
denumerative geometry
deny yourself
deny yourself not at all
deny yourself nothing
deny yourself to
deo volente
deo volente
deodorant soap
deontological ethics
deoxy-
deoxyribonucleic acid
depart from
depart from the prepared text
depart this life
departed spirit
departed this life
departed, the
department hospital
department of investigation
department of knowledge
department store
departmental store
depend on
depend upon
dependence on
dependent clause
dependent on
dependent variable
depending on
depending on circumstances
dephlogisticated air
dephosphorizing process
depicting in the imagination
depletion allowance
deponent verb
deport yourself
deported population
deposit account
deposit banking
deposit copy
deposit currency
deposit margin
deposit money
deposit of faith
deposit premium company
deposit slip
depot ship
deraved appetite
derecrate yourself
dereciate yourself
dereciation charge
deress the scales
deressed arch
deressed area
deressed class
deressed population
derressed-bed
derressed-bed method
deression of spirit
deression range finder
deression slide
deression spring
deressive reaction
deressor nerve
derivation of freedom
derive of
derive of freedom
derive of life
derive of office
derive of sight
deprive you of
deprived of
deprived of reason
depriving of sight
depth bomb
depth charge
depth gauge
depth indicator
depth indicators
depth interview
depth measure
depth measurement
depth of field
depth of focus
depth of hold
depth of misery
depth of thought
depth of winter
depth perception
depth psychology
depth sounder
depth sounding
depth table
depth-charge
depth-charged
depth-charging
depthing tool
depths of space
depths of your being
deputy collector
deputy commissioner
deputy sheriff
der Tag
der-doing
derailing switch
derb fine
derestic thinking
derivable from
derivation from
derivative action
derivative title
derive from
derive pleasure from
derived authority
derived curve
derived four-channel system
derived function
derived set
derived unit
deriving from
derm-
dermat-
dermato-
dermato-autoplasty
dermo-
dermoid cyst
dernier en
dernier cri
dernier ressort
derogate from
derrick block
derrick boat
derrick boatman
derrick car
derrick chain
derrick crab
derrick crane
derrick elevator
derrick engine
derrick floor
derrick floorman
derrick forge
derrick fork
derrick hoist
derrick hoist
derrick lamp
derrick lamp
derrick maker
derrick making
derrick mast
derrick master
derrick sheaves
derrick sill
derrick skid
derrick skip
derrick spring
derrick stacker
derrick stool
derrick stove
derrick timber
derrick tower
derrick truck
derrick wheel
derring do
derring-do
derry-down
des-
descant clef
descant viol
descend from
descend on
descend to particulars
descend upon
descending node
descension theory
descent cast
descent on
descent upon
describe a circle
descriptive clause
descriptive geometry
descriptive grammar
descriptive linguistics
desert boots
desert cat
desert cooler
desert fathers
desert fox
desert iguana
desert island
desert kumquat
desert lark
desert lemon
desert lily
desert lynx
desert oak
desert of time
desert palm
desert pea
desert plant
desert poisonbush
desert polish
desert rat
desert rod
desert saints
desert she-oak
desert ship
desert soil
desert trumpet flower
desert trumpeter
desert under fire
desert varnish
desert weed
desert willow
desert your principles
desert-bred
desert-locked
desert-wearied
desertion of principle
desertion under fire
deserts of vast eternity
deserve punishment
design bedding
design body
design load
designate a proxy
designate an agent
desire body
desire concentration
desire for knowledge
desire for yourself
desire guidance
desires of the flesh
desiring water
desirous of
desirous to
desist from
desistquit it
desk calendar
desk clerk
desk dictionary
desk jobber
desk lamp
desk light
desk pad
desk room
desk sweater
desk telephone
desk work
desm-
desmo-
desoxy-
desoxyribonucleic acid
despair of
despaired of
desperate criminal
despite that
despoiled of
despotic monarch
despotic monarchy
dessert fork
dessert knife
dessert plate
dessert spoon
dessert wine
destiny's darling
destitute of
destitute of life
destroyer escort
destroyer leader
destroyer tender
destroyer wheel
destroying angel
destruct line
destruction of life
destructive criticism
destructive distillation
destructive interference
detach for service
detached escapement
detached retina
detached service
detail drawing
detail man
detectable odor
detective novel
detective story
detective work
detective yarn
detent escapement
detention camp
detention centre
detention home
detention hospital
determinant rank
determinate cleavage
determinate growth
determinative clause
determine once for all
determine upon
determined upon
deterrent capacity
deterrent example
detonating fuse
detonating powder
detonating tube
detonation indicator
detract attention
detract from
detritus tank
deuce game
deuce point
deuce set
deuce shot
deuce-ace
duces wild
deus ex machina
deut-
deuter-
deuterium oxide
deutero-
deutero-malayan
deuterocanonical books
deuto-
deutsche mark
devastating attack
develop into
develop late
developed thought
developing dye
developing tank
developing-out paper
development section
development theory
developmental change
developmental psychology
deviate from
deviate from the path of virtue
deviate from the truth
deviation card
deviation factor
deviation warranty
devil bolt
devil carriage
devil chaser
devil dance
devil dancer
devil dancing
devil dog
devil dogs
devil grass
devil incarnate
devil lore
devil murder
devil of a
devil ray
devil take
devil to pay, the
devil worship
devil worshiper
devil worshipping
devil's advocate
devil's bit
devil's bones
devil's books
devil's claw
devil's coach-horse
devil's darning needle
devil's dung
devil's dust
devil's food cake
devil's grip
devil's guts
devil's ivy
devil's mark
devil's milk
devil's own luck
devil's paintbrush
devil's tattoo
devil's-bit
devil's-bones
devil's-ivy
devil's-pincushion
devil's-tongue
devil's-walking-stick
devil-born
devil-devil
devil-diver
devil-dodger
devil-fish
devil-giant
devil-god
devil-haired
devil-in-the-bush
devil-inspired
devil-like
devil-may-care
devil-may-careness
devil-porter
devil-ridden
devil-tender
deviled eggs
devils' chorus
devils-on-horseback
devoid of
devoid of truth
devolve on
devolve upon
devote the mind to
devote the thoughts to
devote to
devote yourself
devote yourself to
devoted friend
devoted friendship
devoted to
devoted to studies
devotee of Bacchus
devotion to duty
devoured by
devoured by desire
devouring element
dew bit
dew bow
dew cap
dew cell
dew grass
dew plant
dew point
dew pond
dew snail
dew worm
dew-beat
dew-beater
dew-bedabbled
dew-bediamonded
dew-bent
dew-berry
dew-bespangled
dew-bespattered
dew-besprinkled
dew-boine
dew-bolne
dew-bright
dew-clad
dew-claw
dew-cold
dew-dabbled
dew-drenched
dew-dripped
dew-dropping
dew-drunk
dew-fall
dew-fed
dew-gemmed
dew-laden
dew-lipped
dew-lit
dew-pearled
dew-point
dew-point deficit
dew-point depression
dew-point hygrometer
dew-point spread
dew-point temperature
dew-pond
dew-ret
dew-sprent
dew-sprinkled
dew-worm
dewar flask
dewey decimal classification
dewy morn
dewy-bright
dewy-dark
dewy-eyed
dewy-feathered
dewy-feathered sleep
dewy-fresh
dewy-pinioned
dextr-
dextrinogenic enzyme
dextro camphor
dextro propoxyphene
dextro-
dextro-glucose
dextroamphetamine sulfate
dextronic acid
dh-
dhobi itch
dhobie itch
dhobie tongs
dhu'l-hijja
dhu'l-qa'dah
di grado in grado
di mayores
di minores
di-
di-adapan
di-allyl
di-decahedral
di-do decahedral
di-hexa hedron
di-iodide
di-tri-
dia-
diabase-porphyrite
diabetes insipidus
diabetes mellitus
diabetes sugar
diabetes weed
diabetic diet
diabol-
diacetyl morphine
diacritical mark
diacritical marks
diacritical sign
diadem lemur
diadem spider
diagnostic picture
diagonal bond
diagonal cloth
diagonal engine
diagonal line
diagonal matrix
diagonal-built
diagonal-cut
diagram factor
dial bird
dial enameler
dial feed
dial foot
dial gauge
dial press
dial recorder
dial telegraph
dial telephone
dial tone
dial train
dial work
dial-plate
dialect atlas
dialect dictionary
dialect geographer
dialect geography
dialectical materialism
dialectical materialist
dialectical theology
dialing globe
dialling tone
diallyl sulfide
diallylbarbituric acid
dialogical theology
dialy-
dialysis machine
dialytic method
diameter tape
diametrically opposite
diamido-
diamine dye
diamine oxidase
diamond anniversary
diamond bed
diamond beetle
diamond bird
diamond black
diamond borer
diamond boron
diamond bort
diamond breaker
diamond broker
diamond cement
diamond chisel
diamond couching
diamond crossing
diamond cut diamond
diamond dash
diamond die
diamond digger
diamond digging
diamond dresser
diamond drill
diamond dust
diamond edition
diamond factory
diamond field
diamond fig
diamond file
diamond flounder
diamond flower
diamond gauge
diamond gravel
diamond green
diamond groove
diamond hammer
diamond hitch
diamond in the rough
diamond jubilee
diamond knot
diamond linen
diamond merchant
diamond mill
diamond mine
diamond mortar
diamond panel
diamond paste
diamond pencil
diamond photograph
diamond plant
diamond plate
diamond plow
diamond point
diamond polisher
diamond powder
diamond rattlesnake
diamond ring
diamond ring effect
diamond saw
diamond setter
diamond skin disease
diamond snake
diamond sparrow
diamond splitter
diamond stitching
diamond tool
diamond tooth
diamond trade
diamond truer
diamond twist
diamond wedding
diamond weevil
diamond wheel
diamond-back
diamond-backed
diamond-beetle
diamond-boring
diamond-bright
diamond-cut
diamond-cutter
diamond-headed
diamond-leaf laurel
diamond-matched
diamond-paned
diamond-point
diamond-pointed
dibbuks dibbukim
dibutyl oxalate
dibutylamino-propanol
dicarbo-
dicarboxylic acid
dice coal
dice cup
dice roll
dice throws
dice-box
dice-top
dich-
dichloramine-t
dichlorodiethyl formal
dichlorodiethyl sulfide
dichloroethyl formal
dichloroethyl sulphide
dichlorophenoxyacetic acid
dicho-
dichro-
dichromatic vision
dichromic acid
dicing board
dick test
dickey box
dicky bow
dictate peace
dictates of Mrs
dictates of society
dictating machine
dictatorship of the proletariat
dictionary catalog
dictionary catalogue
dictionary editor
dictionary meaning
dictionary of quotations
dictionary-proof
dicty-
dicyclopentadienyl metal
did you ever
didactic poetry
diddle away
diddle-
diddle-daddle
diddle-dee
die a natural death
die a violent death
die at your post
die away
die away from the memory
die by your own hand
die cast
die caster
die casting
die chaser
die chuck
die cutter
die cutting
die down
die engraver
die fighting
die filing
die fitter
die fitting
die for your country
die forger
die forging
die game
die grinder
die hammer
die hard
die hardener
die head
die hob
die holder
die in harness
die in the Lord
die in the attempt
die in the last ditch
die in your boots
die is cast, the
die kicker
die laughing
die like a man
die miller
die mold
die off
die on the vine
die out
die planer
die plate
die polisher
die polishing
die press
die presser
die proof
die reamer
die screw plate
die set
die shaper
die sharpening
die shoe
die spotter
die spotting
die spring
die stamper
die standing up
die steel
die stock
die stripper
die stripping
die tap
die temper
die trying
die turner
die wedge
die with delight
die with pleasure
die with your boots on
die-away
die-back
die-cast
die-casting
die-cut
die-hard
die-hardism
die-square
dielectric constant
dielectric current
dielectric displacement current
dielectric heat
dielectric heater
dielectric heating
dielectric loss
dielectric preheater
dielectric strength
dies funestis
dies irae
dies non
dies non juridicus
diesel cycle
diesel engine
diesel fuel
diesel oil
diesel propulsion
diesel-driven
diesel-electric
diesel-electric propulsion
diesel-engined
diesel-hydraulic
diesel-powered
diesel-propelled
diesinking machine
diet book
diet kitchen
dietary deficiency
dietary law
dietetic treatment
diethene-
diethyl ether
diethyl malonate
diethyl oxide
diethyl sulfide
diethylbarbituric acid
diethylene dioxide
dif-
differ from
differ in opinion
difference chart
difference engine
difference equation
difference gauge
difference limen
difference of form
difference of opinion
difference product
difference quotient
difference ring
difference table
difference threshold
difference tone
different breed of cat
different story
different thing
differential analyzer
differential anesthetic
differential calculus
differential coefficient
differential diagnosis
differential equation
differential gap
differential gear
differential gearing
differential geometry
differential ionization chamber
differential leveling
differential operator
differential pressure gauge
differential psychology
differential purchase
differential quotient
differential rate
differential recorder
differential tackle
differential tone
differential weathering
differential windlass
difficult thing
difficulty score
diffracted wave
diffraction disk
diffraction grating
diffraction spectroscope
diffraction spectrum
diffuse inflammation
diffuse light
diffuse nebula
diffuse reflection
diffuse-porous
diffused junction
diffused lighting
diffusing screen
diffusion air pump
diffusion battery
diffusion chamber
diffusion coefficient
diffusion juice
diffusion process
diffusionist theory
dig around for
dig at
dig for
dig in
dig in your heels
dig into
dig out
dig up
dig up the past
dig you in the ribs
dig your heels in
dig your own grave
digest medium
digest of law
digested securities
digester tankage
digestive biscuit
digestive gland
digestive juice
digestive secretion
digestive secretions
digestive system
digger wasp
digging weight
digital clock
digital computer
digital data reducing system
digital differential analyzer
digital examination
digital feedback control
digital general purpose computer
digital graph plotter
digital process
digital watch
digitato-palmate
digitato-pinnate
digiti-
digito-
diglycolic acid
diglycollic acid
dihedral angle
dihydric alcohol
diisobutyl phthalate
dik-dik
dika bread
dika butter
dika nut
dike hopper
dike out
dike rock
dike up
dike-grave
dike-louper
dike-reeve
dilate on
dilate upon
dill oil
dill pickle
dill water
dilly bag
dilly-dally
dilute acid
dim eyes
dim light
dim out
dim past
dim recollection
dim view
dim-brooding
dim-browed
dim-colored
dim-discovered
dim-eyed
dim-felt
dim-gleaming
dim-gray
dim-lettered
dim-lighted
dim-lit
dim-litten
dim-out
dim-remembered
dim-seen
dim-sensed
dim-sheeted
dim-sighted
dim-sightedness
dim-visioned
dim-witted
dim-wittedness
dim-yellow
dime a dozen
dime museum
dime novel
dime store
dime-a-dozen
dime-store
dimension control
dimension lumber
dimension stone
dimethyl arsinic acid
dimethyl sulfate
dimethyl sulfoxide
diminish yourself
diminished dovetail
diminished responsibility
diminished seventh chord
diminished stile
diminishing returns
diminishing rule
diminishing stile
dimissorial letter
dimissory letter
din in the ear
dine not wisely but too well
dine out
dine with Duke Humphrey
diner-out
dinette set
dinette table
ding an sich
ding off
ding-a-ling
ding-dong
dingdong theory
dinge an sich
dinghy anchor
dingle-dangle
dining car
dining chair
dining compartment
dining hall
dining room
dining saloon
dining table
dining utensils
dinitro-
dinitrogen tetroxide
dinkel wheat
dinking die
dinkum oil
dinky-di
dinner audience
dinner bell
dinner call
dinner card
dinner chimes
dinner clothes
dinner club
dinner coat
dinner dance
dinner dress
dinner fork
dinner gong
dinner gown
dinner hour
dinner jacket
dinner knife
dinner napkin
dinner pail
dinner party
dinner plate
dinner ring
dinner room
dinner service
dinner set
dinner table
dinner wagon
dinner-dance
dinner-getting
diocesan conference
diocesan court
diophantine equation
diorite-porphryrite
dip a flag
dip circle
dip down
dip fault
dip into
dip needle
dip out
dip pipe
dip rider
dip rope
dip sector
dip shift
dip slip
dip snuff
dip switch
dip the beak
dip the colors
dip the ensign
dip the pen in gall
dip trap
dip your hands into
dip-dye
dip-grained
dip-needling
diphen-
diphenyl black
diphenyl ether
diphenyl ketone
diphenylene-methane
diphenylhydantoin sodium
diphosphoglyceric acid
diphtheria bacillus
diphtheria toxoid
diphy-
diphyo-
dipl-
diplo-
diploid number
diploma mill
diploma piece
diplomatic agent
diplomatic body
diplomatic code
diplomatic corps
diplomatic courier
diplomatic immunity
diplomatic mission
diplomatic pouch
diplomatic service
diplomatic staff
diplomatic text
dipodic rhythm
dipole aerial
dipole antenna
dipole moment
dipper clam
dipper dredge
dipper gourd
dipper interrupter
dipper-in
dipping acid
dipping basket
dipping bath
dipping battery
dipping chair
dipping compass
dipping elevator
dipping enamel
dipping frame
dipping furnace
dipping hook
dipping house
dipping ladle
dipping lug
dipping lugsail
dipping needle
dipping oil
dipping paint
dipping pan
dipping paper
dipping process
dipping rack
dipping rod
dipping room
dipping table
dipping tank
dipping the colors
dipping the ensign
dipping tub
dipping tube
dipping works
dipping-needle
dipsey lead
dipsey line
dipsy-doodle
dire necessity
dire wolf
direct access
direct action
direct actionist
direct apprehension
direct attention to
direct black
direct blue
direct broadcast
direct brown
direct communication
direct costs
direct cotton dye
direct current
direct current motor
direct democracy
direct discourse
direct distance dialing
direct dye
direct evidence
direct examination
direct fire
direct grant school
direct infection
direct initiative
direct intuition
direct labor
direct lighting
direct line
direct mail
direct method
direct nomination
direct object
direct order
direct positive
direct primary
direct product
direct proportion
direct question
direct ratio
direct relationship
direct signal
direct speech
direct sum
direct tax
direct the eyes
direct the mind upon
direct tide
direct to
direct to the attention
direct transfusion
direct variation
direct yellow
direct your attention to
direct your course
direct your course for
direct your course to
direct yourself
direct-acting
direct-acting engine
direct-acting press
direct-actionist
direct-connected
direct-coupled
direct-current
direct-current circuit
direct-current converter
direct-current servo
direct-driven
direct-examine
direct-examined
direct-examining
direct-geared
direct-grant school
direct-indirect radiator
direct-mail
direct-mail advertising
direct-mail selling
direct-reading computer
direct-reading spectrometer
direct-reading spectroscope
direct-viewing tube
direct-vision prism
direct-vision spectroscope
direct-writing company
directed verdict
directing circle
directing piece
directing plane
directing point
direction angle
direction constant
direction cosine
direction dial
direction finder
direction finding
direction indicator
direction line
direction number
direction post
direction ratio
direction switch
direction tensor
direction test
direction theodolite
direction transmission
direction-finder station
directional antenna
directional derivative
directional gyro
directional signal
directional stability
directive therapy
director circle
director curve
director general
director plane
director regulus
director sphere
director's chair
director-general
directors general
directory arrangement
directory canvasser
dirigible balloon
dirigible torpedo
dirigo-motor
diriment impediment
dirk knife
dirt band
dirt bed
dirt cheap
dirt dauber
dirt eating
dirt farm
dirt farmer
dirt farming
dirt groove
dirt poor
dirt road
dirt wagon
dirt-besmeared
dirt-born
dirt-cheap
dirt-fast
dirt-flinging
dirt-free
dirt-grimed
dirt-incrusted
dirt-line
dirt-rotten
dirt-smirched
dirt-soaked
dirty allan
dirty bomb
dirty crack
dirty deal
dirty dig
dirty hands
dirty joke
dirty language
dirty liar
dirty lie
dirty look
dirty movie
dirty name
dirty old man
dirty politician
dirty politics
dirty pool
dirty sea
dirty shame
dirty sky
dirty story
dirty talk
dirty trick
dirty up
dirty water
dirty weather
dirty wind
dirty word
dirty work
dirty-colored
dirty-faced
dirty-handed
dirty-minded
dirty-shirted
dirty-souled
dis aliter visum
dis-
dis-byronize
dis-element
dis-turk
disability clause
disability insurance
disablement benefit
disaccord with
disaccustom yourself
disadvantaged, the
disagree with
disappearing act
disappoint your expectations
disapprove of
disapproved place
disaster area
disastrous defeat
disazo dye
disburden you of
disburden your conscience
disburden your heart
disburden your mind
disc brake
disc flower
disc harrow
disc jockey
disc wheel
disc-
discar- nate
discernment of excellence
discharge lamp
discharge potential
discharge printing
dischARGE THE DUTIES OF
dischARGE THE FUNCTIONS OF
dischARGE THE OFFICE OF
dischARGE TUBE
dischARGE VALVE
dischARGE YOUR DUTY
dischARGE YOUR FUNCTION
dischARGER CUP
dischARGING ARCH
dischARGING CARGO
dischARGING FREIGHT
dischARGING PALLET
disciples of Christ
disciplinary action
disciplinary measures
discipline yourself
disco-
dischARGING switch
dischARGUANCE WAGE
dischINUNTUITY LAYER
discord with
discount bond
discount broker
discount company
discount house
discount market
discount notes
discount rate
discount store
discount ticket
discount yourself
discourse about
discourse of reason
discourse upon
discourse with
discover itself
discover serendipitously
discover yourself
discovered check
discovery procedure
discrete atom
discrete four-channel system
discretionary account
discretionary income
discriminant function
discriminate against
discriminating relay
discriminating taste
discrimination learning
discrimination time
discursive reason
discursive reasoning
discus thrower
discuss with
discussion group
disdain grammar
disease germ
disease symptom
disease-causing
disease-causing agent
disease-producing
disease-producing microorganism
disease-resistant
disease-spread
diseased mind
diseases of
disembodied spirit
disen-
disengagement governor
disgrace yourself
disguise yourself
disguised as a virtue
disgustingly rich
dish bearer
dish cleaner
dish cover
dish designer
dish drainer
dish feed
dish fit for a king
dish gravy
dish it out
dish maker
dish mop
dish mustard
dish night
dish out
dish plate
dish rack
dish reflector
dish the dirt
dish top
dish towel
dish truck
dish up
dish wagon
dish warmer
dish-crowned
dish-faced
dish-headed
dish-shaped
dishcloth gourd
d shed keel
dishonest person
dishonorable discharge
dishonored bill
dishpan hands
disinclination to believe
disinclination to communicate
disinclination from
disinclined to believe
disinclined to communicate
disinfecting candle
disintegration series
disjecta membra
disjoin yourself
disjunctive conjunction
disk armature
disk barrow
disk bit
disk brake
disk brakes
disk clutch
disk crank
disk cultivator
disk drill
disk dynamo
disk engine
disk floret
disk flower
disk furrower
disk go-devil
disk harrow
disk hiller
disk jockey
disk memory
disk meter
disk pack
disk photometer
disk pile
disk plow
disk ridge buster
disk sander
disk signal
disk stove
disk system
disk telegraph
disk valve
disk weeder
disk wheel
disk winding
disk-bearing
disk-seal tube
disk-shaped
dismiss all doubt
dismiss from the mind
dismiss from the thoughts
dismiss from your thoughts
dismiss with a laugh
dismissal wage
dismissed out of hand
disobey the law
disodium phosphate
disordered mind
disordered personality
disordered reason
disorderly conduct
disorderly house
disorderly person
disparaging remark
dispatch boat
dispatch box
dispatch case
dispatch money
dispatch note
dispatch rider
dispatch tube
dispatch writer
dispatch writing
dispatch-bearer
dispatch-bearing
dispatch-rider
dispel your illusions
dispensations of providence
dispense from
dispense with
dispensed with
dispersal prison
disperse system
dispersion hardening
dispersion medium
dissociate yourself from
dissociation coefficient
dissociation constant
dissociation of personality
dissociation reaction
dissolution of marriage
dissolve in tears
dissolve into chaos
dissolve marriage
dissolve out
dissolved in tears
dissolving agent
dissolving view
dissonant chord
dissonant sounds
distaff kin
distaff side
distaff thistle
distal convoluted tubule
distance across
distance between
distance circle
distance crossways
distance crosswise
distance flag
distance language
distance made good
distance medley
distance of time
distance post
distance receptor
distance ring
distance scale
distance through
distant early warning
distant early warning line
distant future
distant past
distant perspective
distant prospect
distant relation
distantly and broadly
distantly related
distended belly
distilled essence
distilled water
distilling flask
distilling tube
distinction without a difference
distinctive feature
distinguish between
distinguished flying cross
disto-occlusion
distorted conception
distorted image
distorting mirror
distract attention from
distract the attention
distress call
distress flag
distress frequency
distress gun
distress merchandise
distress sale
distress signal
distressed area
distributed costs
distributed term
distribution board
distribution curve
distribution difference
distribution function
distribution ratio
distributive education
distributor bar
district attorney
district council
district court
district judge
district leader
district man
district nurse
district parish
district school
district superintendent
districts of
distrust yourself
disturbed mind
disturbed personality
disulpho-
disulphuric acid
dit-da artist
dita bark
ditat Deus
ditch crowfoot
ditch fern
ditch grass
ditch hand
ditch machine
ditch millet
ditch moss
ditch reed
ditch rider
ditch spade
ditch stonecrop
ditch sunflower
ditch-delivered
ditch-drawn
ditch-moss
ditching car
ditching machine
ditching scoop
dithering grass
dithionic acid
dithionous acid
ditto machine
ditto mark
ditto marks
ditty bag
ditty box
ditty-bag
diurnal arc
diurnal circle
diurnal epilepsy
diurnal parallax
diva blue
divaricate from
dive bomber
dive bombing
dive brake
dive in
dive into
dive-bomb
dive-bombing
dive-dap
dive-dapper
diver's palsy
diverge from
divergence theorem
divergent squint
divergent strabismus
divergent thinking
diverging lens
divers-colored
diverse control
diverse-colored
diverse-natured
diverse-shaped
diversi-
diversified corporation
diversified economy
diversion chamber
diversion cut
diversionary attack
diversionary movement
diversity factor
diversity of colors
divert attention
divert the mind
divert the thoughts
divest of freedom
divest of office
divi-divi
divide by four
divide et impera
divide in thirds
divide in three
divide into four
divide into shares
divide on
divide up
divide with
divided attention
divided highway
divided spectacles
dividend off
dividend on
dividend warrant
dividing engine
dividing head
dividing line
dividing plate
dividing ridge
dividing sinker
dividing wall
divine afflatus
divine attribute
divine breath
divine discontent
divine function
divine healer
divine healing
divine inspiration
divine liturgy
divine office
divine revelation
divine right
divine right of kings
divine service
divine spark
divine tobacco
divine-human
diving beetle
diving bell
diving bird
diving bladder
diving board
diving boat
diving chamber
diving dress
diving duck
diving engine
diving equipment
diving float
diving goggles
diving helmet
diving hood
diving machine
diving mask
diving platform
diving raft
diving rudder
diving suit
diving togs
divining rod
divining stick
diviety calf
divinity circuit
divinity circuit binding
divinity fudge
divinity school
divinity student
divinyl ether
division algebra
division algorithm
division center
division engineer
division in the camp
division line
division lobby
division mark
division of labor
division ring
division sign
division superintendent
divorce court
divorce mill
divorced man
divorced person
divorced woman
divvy up
divvy up with
divvying up
dixieland band
dizzy heights
dizzy round
dj-
djati tree
doa bit
doa bunk
doa comparative study
doa deal
doa disservice
doa fade-out
doa favor
doa flip-flop
doa good deed
doa good turn
doa grave injustice
doa great wrong
doa gross injustice
doa hand's turn
doa hitch
doa kind deed
doa kindness
doa land-office business
doa lick of work
doa mischief
doa number on
doa repeat
doa right-about-face
doa service
doa slow burn
doa stint
doa strip-tease
doa tour
doa tour of duty
doa turn to the right-about
do a vanishing act
do a world of good
do active duty
do again
do all in your power
do all right by yourself
do all the talking
do all you can
do amiss
do an about-face
do an about-turn
do an ill office to
do an impression of
do anyhow
do as much as in one lies
do as others do
do as well as you can
do as you please
do as you say
do as you would be done by
do at the bidding of
do at your convenience
do at your leisure
do at your own peril
do at your own risk
do at your pleasure
do away with
do away with yourself
do battle
do business
do business with
do by
do by halves
do carelessly
do chars
do credit to
do credit to someone
do double duty
do down
do down to the ground
do duty
do easily
do everything you can
do evil
do for
do for yourself
do good
do harm
do homage
do homage to
do honor
do honor to
do ill
do in
do in a pinch
do in a slipshod fashion
do in any old way
do in your own sweet way
do independently
do it
do it according to Hoyle
do it by the book
do it or break a leg
do it or bust a gut
do it up brown
do justice
do justice to
do like
do no evil
do no harm
do not give it a second thought
do not give it another thought
do nothing
do nothing in excess
do obeisance
do of your own accord
do of your own free choice
do of your own free will
do of your own volition
do offhand
do on an average
do on your own
do on your own hook
do on your own initiative
do on your own say-so
do or die
do out
do out of
do over
do over again
do penance
do proud
do right
do right by
do service
do service for
do service to
do some heavy thinking
do someone credit
do someone dirt
do something
do something about
do suit and service
do superfluously
do svidanye
do tell
do the best you can
do the best you know how
do the chores
do the crazy act
do the crazy bit
do the crazy shtick
do the deadman's float
do the dirty work of
do the disappearing act
do the fair thing
do the goose step
do the handsome thing
do the heart good
do the honors
do the job
do the lock step
do the needful
do the proper thing
do the right thing
do the right thing by
do the spadework
do the trick
do the unexpected
do the will of
do time
do to
do to a T
do to a frazzle
do to a turn
do to death
do to perfection
do too many things at once
do up
do up brown
do violence to
do voluntarily
do well
do what is expected
do what is right
do what lies in your power
do what you are told
do what you can
do what you choose
do what you have to do
do what you like
do what you set out to do
do what you wish
do with
do with both eyes shut
do without
do wonders
do wrong
do wrong by
do wrong to
do you a wrong
do you an injustice
do you proud
do your best
do your bidding
do your bit
do your damndest
do your darndest
do your duty
do your heart good
do your level best
do your number
do your office
do your part
do your share
do your stuff
do your thing
do your utmost
do your worst to
do yourself proud
do-all
do-dad
do-funny
do-good
do-gooder
do-goodism
do-it-yourself
do-it-yourselfer
do-little
do-naught
do-nothing
do-nothing adj
do-nothing policy
do-nothingism
do-nothingness
do-nought
do-or-die
do-over
do-re-mi
do-si-do
do-up
dob in
dobber-in
dobbin cart
dobby loom
dobby weave
dobell's solution
doberman pinscher
dobson fly
doch-an-dorrach
doch-an-dorris
doch-an-dorroch
dock boss
dock bur
dock charge
dock cooper
dock crane
dock cress
dock crew
dock derrick
dock dues
dock foreman
dock gate
dock hand
dock hoist
dock inspector
dock laborer
dock light
dock nettle
dock port
dock porter
dock receipt
dock rent
dock screw
dock shunter
dock sill
dock sorrel
dock space
dock spike
dock superintendent
dock trade
dock warehouse
dock warrant
dock-leaved
dock-tailed
dock-wallop
dock-wallop
docking bridge
docking cradle
docking keel
docking maneuver
docking pilot
docking plan
docking telegraph
doctor accounts
doctor blade
doctor file
doctor fish
doctor up
doctor's degree
doctor's gown
doctor's oral
doctoral candidate
doctrinal statement
doctrinal theology
doctrine of descent
doctrine of inference
doctrine of terms
doctrine of the judgment
document bill
documentary drama
documentary evidence
documentary film
dodder family
dodder grass
doddy mitten
dodeca-
dodecanoic acid
dodecuple scale
dodecyl aldehyde
dodge ball
dodge chain
dodging tool
dodo split
doegling oil
doeskin brown
doff your cap to
doffing comb
doffing cylinder
doffing knife
dog Latin
dog ape
dog bee
dog belt
dog bent
dog biscuit
dog blanket
dog box
dog bramble
dog breeder
dog bur
dog button
dog cabbage
dog cake
dog camomile
dog carrier
dog chain
dog chart
dog cherry
dog clipper
dog clutch
dog collar
dog cracker
dog crate
dog curtain
dog daisy
dog dandelion
dog days
dog disease
dog dollar
dog elder
dog family
dog fancier
dog fennel
dog flea
dog flesh
dog flower
dog food
dog fox
dog grass
dog grate
dog harness
dog hip
dog hobble
dog hood
dog hook
dog hospital
dog hysteria
dog in the manger
dog iron
dog it
dog kennel
dog laurel
dog leech
dog letter
dog license
dog lichen
dog life
dog lily
dog louse
dog lover
dog meat
dog mercury
dog mint
dog muzzle
dog nail
dog nap
dog nettle
dog owl
dog owner
dog paddle
dog parsley
dog plum
dog poison
dog pound
dog race
dog racing
dog reed
dog robber
dog robbing
dog rose
dog rowan tree
dog salmon
dog screw
dog seal
dog shark
dog show
dog sled
dog sledge
dog sleigh
dog snapper
dog soap
dog spike
dog standard
dog star
dog stealing
dog stinkhorn
dog tag
dog tansy
dog tapeworm
dog tax
dog tent
dog the footsteps of
dog thistle
dog thorn
dog tick
dog tongue
dog town
dog track
dog train
dog trainer
dog training
dog tree
dog tune
dog violet
dog wagon
dog warden
dog warp
dog watch
dog wheat
dog wheel
dog whelk
dog whip
dog whistle
dog winkle
dog wrench
dog's age
dog's chance
dog's letter
dog's life, a
dog's-bane
dog's-ear
dog's-eared
dog's-meat
dog's-tail
dog's-tail grass
dog's-tongue
dog's-tooth
dog's-tooth check
dog's-tooth violet
dog-banner
dog-bitten
dog-bramble
dog-brier
dog-cart
dog-catcher
dog-cheap
dog-day cicada
dog-days
dog-draw
dog-drawn
dog-driven
dog-ear
dog-eared
dog-eat-dog
dog-end
dog-eyed
dog-faced
dog-fennel
dog-fish
dog-fisher
dog-fly
dog-footed
dog-fox
dog-gnawn
dog-gone
dog-grass
dog-head
dog-head hammer
dog-head spike
dog-headed
dog-hole
dog-hook
dog-hungry
dog-hutch
dog-in-the-manger
dog-keeping
dog-lame
dog-latin
dog-lean
dog-leaved
dog-leech
dog-leg
dog-leg fence
dog-leg hole
dog-leg stair
dog-legged
dog-legged stair
dog-mad
dog-nail
dog-owning
dog-paddle
dog-paddled
dog-paddling
dog-plum
dog-poor
dog-rose
dog-shore
dog-sick
dog-skin
dog-sleep
dog-star
dog-stone
dog-stopper
dog-tired
dog-toes
dog-tongue wampee
dog-tooth
dog-toothed
dog-tree
dog-trick
dog-trot
dog-vane
dog-violet
dog-watch
dog-weary
dog-whelk
dogbane family
dogberry tree
dogged perseverance
dogleg fence
dogmatic theology
dogtooth check
dogtooth spar
dogtooth star grass
dogtooth violet
dogtown grass
dogwood family
dogwood poisonbush
doing business
doing nicely
dolce far niente
dolce vita
dole cupboard
dole meadow
dole out
dolich-
doling out
doll baby
doll carriage
doll hospital
doll maker
doll out
doll up
doll's house
doll-faced
doll-like
dollar acceptance
dollar averaging
dollar bill
dollar bond
dollar chaser
dollar cost averaging
dollar crisis
dollar debenture
dollar deficit
dollar diplomacy
dollar exchange
dollar gap
dollar imperialism
dollar loan
dollar mark
dollar shortage
dollar-a-year man
dollars to doughnuts
dolled up
dolly bar
dolly bird
dolly drop
dolly mixture
dolly shop
dolly shot
dolly varden
dolly-head
dolly-mop
dolman jacket
dolman sleeve
dolomite marble
dolorous tirade
dolphin fly
dolphin oil
dolphin striker
dolphin-flower
dolphin-striker boom
dom pedro
domain of integrity
dome car
dome tomb
dome top
dome whistle
dome-shaped
domes-booke
domesday book
domestic animal
domestic animals
domestic cat
domestic cattle
domestic comedy
domestic drudge
domestic economy
domestic fowl
domestic management
domestic prelate
domestic relations law
domestic science
domestic servant
domestic shorthair cat
domestic tragedy
domestic wine
domestic-relations court
domiciliary visit
dominant character
dominant chord
dominant estate
dominant note
dominant seventh chord
dominant tenement
dominant wavelength
dominate the field
domine dirige nos
domineer over
dominical altar
dominical letter
domination day
domination rule
domino effect
domino mask
domino paper
domino theory
domino whist
domitae naturae
don juan
don quixote
don't I know it
don't hold your breath
don't kid yourself
don't know
don't lose any sleep over it
don't make waves
don't rock the boat
don't spare the horses
donate to
donation land
donation party
done for
done in
done to a turn
done to perfection
done up
done with
donjon keep
donkey boiler
donkey boy
donkey crosshead
donkey derby
donkey doctor
donkey ears
donkey engine
donkey hoist
donkey jacket
donkey pump
donkey puncher
donkey sled
donkey tender
donkey topsail
donkey vote
donkey's ears
donkey's years
donkey's years ago
donkey-drawn
donkey-eared
donkey-work
donnybrook fair
doob grass
doob palm
doob ring
doob to
doob to perdition
doob tree
doomed hope
doomed hopes
doone-head-clock
door bed
door chain
door check
door closer
door fastener
door finisher
door fitter
door furniture
door grass
door handle
door hanger
door hasp
door hinge
door jack
door key
door knocker
door latch
door lock
door maker
door mat
door matting
door money
door opener
door prize
door scraper
door spring
door stile
door strap
door switch
door to door
door track
door trap
door trapper
door-roller
door-shaped
door-to-door
door-to-door salesman
dooryard grass
dooryard plantain
dop doctor
dopa reaction
dope fiend
dope off
dope out
dope pusher
dope sheet
dope smuggling
dope story
dope up
dope, the
doppler effect
dor bee
dor bug
dor fly
dor-fly
dorcas gazelle
dore bullion
dore furnace
dormant partner
dormer beam
dormer window
dormer-windowed
dormitory suburb
dormouse phalanger
dorothy perkins
dors-
dors-umbonal
dorsal airdome
dorsal blister
dorsal fin
dorsal lip
dorsal region
dorsal root
dorsal-root ganglion
dorset horn
dorsi-
dorsi-ventral
dorso-
dorso-occipital
dorso-ulnar
dorsum ephippii
dory skiff
dos and don'ts
dos gris
dos nominata
dos rationabilis
dos-
dos-a-dos
dosage compensation
dosage meter
dose of clap
dose of claps
dose of strap oil
dose with
dosimetric medicine
dosing apparatus
dosing siphon
dosing tank
doss down
doss house
dot down
dot figure
dot map
dot product
dot the i's and cross the t's
dot your i's and cross your t's
dot-dash line
dot-sequential
dot-sequential color television
dote on
dote upon
dotted line
dotted swiss
dotterel dun
dottle pin
douay version
double Blackwall hitch
double Dutch
double Gloucester
double Spanish burton
double a point
double achievement
double acrostic
double action engine
double agent
double algebra
double altar
double back
double bar
double bass
double bassoon
double batten
double bed
double bill
double bind
double block
double blossom
double boiler
double bond
double bridle
double bunk
double centering
double check
double chin
double hyphen
double image
double in brass
double indemnity
double integral
double jeopardy
double jump
double luff tackle
double magnum
double march
double meaning
double monastery
double mordent
double negative
double obelisk
double or mutual change
double or nothing
double or quits
double orange daisy
double over
double paddle
double pair royal
double pedal point
double personality
double piece
double play
double pneumonia
double possessive
double post
double precision
double predestination
double prime
double print
double purchase
double quatrefoil
double quotes
double reed
double reference
double refraction
double rhyme
double royal
double salt
double sap
double saucepan
double sawbuck
double scull
double sculls
double sharp
double shuffle
double sideband
double sight
double solitaire
double space
double spinnaker
double spread
double sprit
double standard
double star
double steal
double stem
double stitch
double stop
double summer time
double tackle
double take
double talk
double tape
double ten
double tide
double time
double triode
double truck
double up
double vision
double whip
double whole note
double wicket
double wing
double wingback formation
double your fist at
double-O
double-Os
double-acting
double-acting engine
double-action
double-action harrow
double-armed
double-armed bolt
double-aspect theory
double-bank
double-banked
double-banker
double-barred
double-barrel
double-barreled
double-barrelled
double-bass
double-battalioned
double-beat valve
double-bedded
double-bell euphonium
double-benched
double-biting
double-hitt
double-bitted
double-bladed
double-blind
double-blossomed
double-bodied
double-bond isomerism
double-bottom
double-bottomed
double-branch
double-branched
double-break switch
double-breasted
double-breasteded jacket
double-breasted suit
double-brooded
double-bubble
double-button carbon microphone
double-buttoned
double-chain sling
double-charge
double-check
double-chinned
double-clasping
double-claw
double-clutch
double-coated film
double-concave
double-convex
double-creme
double-crested
double-crested cormorant
double-crop
double-cropped
double-cropping
double-cross
double-crosser
double-crossing
double-cup insulator
double-cupped
double-current generator
double-current signaling
double-cut
double-cut file
double-cut saw
double-cylinder planer
double-dare
double-date
double-dated
double-dating
double-dealer
double-dealing
double-deck
double-decked
double-decker
double-decker sandwich
double-declutch
double-disk
double-disk harrow
double-distilled
double-ditched
double-dodge
double-dog dare
double-dome
double-doored
double-dot display
double-dotted
double-duty
double-dye
double-dyed
double-edged
double-end saw file
double-ended
double-ended bolt
double-ender
double-ender file
double-engined
double-entry accounting
double-entry bookkeeping
double-entry system
double-entry table
double-eyed
double-face
double-faced
double-facedly
double-facedness
double-fault
double-feature
double-flowered
double-flowering
double-fold
double-footed
double-framed
double-fronted
double-ganger
double-gilt
double-handed
double-harness
double-hatched
double-head
double-headed
double-header
double-hearted
double-helical
double-helical gear
double-horned
double-hung
double-image micrometer
double-image prism
double-image telescope
double-ironed
double-jointed
double-keeled
double-knit
double-language theory
double-leaded
double-liability stock
double-line
double-lived
double-livedness
double-loaded
double-loathed
double-lock
double-lunged
double-magnum
double-manned
double-measure door
double-milled
double-minded
double-mindedly
double-mindedness
double-mouthed
double-name paper
double-natured
double-opposed
double-or-nothing
double-page spread
double-park
double-parted and pretty
double-pedal
double-piled
double-pipe condenser
double-pointed
double-pole switch
double-pored
double-ported
double-printing
double-prop
double-queue
double-quick
double-quick time
double-quirked
double-reed
double-reed family
double-reed instrument
double-reef
double-reefed
double-refined
double-refracting
double-ripper
double-rivet
double-rived
double-roller escapement
double-rooted
double-row radial engine
double-runner
double-scull
double-seated valve
double-seater
double-seeing
double-sensed
double-shear steel
double-shed insulator
double-shot
double-sided
double-sidedness
double-sighted
double-slide
double-soled
double-space
double-spaced
double-spacing
double-spun
double-starred
double-stemmed
double-stitch
double-stitched
double-stop
double-stopped
double-stopping
double-strength
double-struck
double-sunk
double-sunk dial
double-surfaced
double-swing door
double-swing joint
double-sworded
double-system sound recording
double-tailed
double-talk
double-team
double-think
double-thong
double-thread
double-threaded
double-throw switch
double-time
double-timed
double-timing
double-tongue
double-tongued
double-tonguing
double-tooth
double-track
double-trenched
double-trouble
double-truck heading
double-twisted
double-u
double-visaged
double-voiced
double-windowed
double-winged
double-work
double-worked
doubleseness of heart
doubles ententes
doublet pattern
doubt not
doubt the truth of
doubt your word
doubt yourself
dovetail cramp
dovetail halving
dovetail hinge
dovetail joint
dovetail molding
dovetail plane
dovetail saw
dovetail slide
dovetail-shaped
dowdy frumpish
dowel bit
dowel jig
dowel maker
dowel pin
dowel plate
dowel pointer
dowel rod
dowel screw
dowel sharpener
dowel spoke
dowel stick
dower chest
dower house
down East
down along
down and out
down at heel
down at heels
down at the heel
down at the heels
down bed
down below
down by the head
down card
down cushion
down feather
down grade
down helm
down home
down in the mouth
down in the world
down left
down on
down on your luck
down on your uppers
down pat
down payment
down picker
down pillow
down pipe
down plucker
down plumage
down right
down runner
down south
down the alley
down the drain
down the hatch
down the pipe
down the rathole
down the spout
down the wind
down thistle
down time
down to bedrock
down to the ground
down to your last cent
down to your last penny
down tree
down trip
down under
down weight
down wool
down your arms
down-and-out
down-and-outer
down-at-heel
down-at-heels
down-at-the-heel
down-at-the-heels
down-beater
down-bow
down-charge
down-coast
down-covered
down-crier
down-curving
down-drag
down-draught
down-easter
down-gyved
down-hip
down-house
down-in-the-mouth
down-lead
down-lying
down-market
down-payment
down-reaching
down-river
down-soft
down-talk
down-the-line
down-to-date
down-to-earth
down-to-earthness
down-trending
down-valley
down-wash
downat-the-heel
downdraft kiln
downfeed system
downing of arms
downside-up
downward mobility
downward motion
downward trend
downwash angle
downwind leg
downy mildew
downy oat grass
downy sleep
downy woodpecker
downy-cheeked
downy-clad
downy-feathered
downy-fruitet
downy-winged
dowse for water
dowse sail
dowsing chock
dowsing rod
doze off
drap
drab-breeched
drab-coated
drab-colored
drab-tinted
drabble in the mud
dracaena palm
draco lizard
draconic month
draft act
draft allowance
draft animal
draft beer
draft board
draft box
draft call
draft chair
draft dodger
draft engine
draft evener
draft gauge
draft gear
draft horse
draft lottery
draft mark
draft mill
draft net
draft off
draft pin
draft rein
draft rod
draft scale
draft tube
draft-exempt
drafted man
drafting board
drafting paper
drafting room
drafting yard
drag a lengthening chain
drag along
drag anchor
drag at your chariot wheel
drag axis
drag before the public
drag boat
drag box
drag bucket
drag bunt
drag cart
drag chain
drag classifier
drag component
drag conveyer
drag crank
drag direction
drag down
drag fold
drag force
drag from
drag harrow
drag hook
drag horse
drag hunt
drag in
drag in by the heels
drag in the mud
drag into
drag into court
drag into the limelight
drag iron
drag its slow length along
drag link
drag mill
drag on
drag out
drag out of
drag over the coals
drag parachute
drag race
drag racer
drag racing
drag rake
drag ratio
drag sail
drag scraper
drag seine
drag sheet
drag spring
drag step
drag strip
drag strut
drag through the mud
drag tooth
drag twist
drag up
drag washer
drag wire
drag your feet
drag-chain
drag-down
drag-hook
drag-out
drag-staff
drag-stone mill
dragged into
dragged out
dragged-out
dagger-down
dagger-out
dagger-up
dragging beam
dragging down
dragging of the feet
dragging pace
dragging piece
dragging-out
draggle-haired
draggle-tail
draggle-tailed
dragline crane
dragline dredge
dragline excavator
dragnet clause
dragon arum
dragon balloon
dragon beam
dragon claw
dragon fish
dragon gum
dragon lizard
dragon piece
dragon plant
dragon tie
dragon tree
dragon turnip
dragon withe
dragon's blood
dragon's head
dragon's tail
dragon's-tongue
dragon-eyed
dragon-faced
dragon-fly
dragon-mouthed
dragon-ridden
dragon-root
dragon-tree
dragon-winged
dragoon bird
drain arm
drain away
drain cleaner
drain cock
drain cup
drain digger
drain exhauster
drain faucet
drain grate
drain inlet
drain layer
drain of color
drain of resources
drain off
drain out
drain pit
drain pump
drain repairer
drain rocket
drain spade
drain tester
drain the cup
drain trap
drain tube
drain valve
drain well
drainage area
drainage basin
drainage benefit
drainage canal
drainage coefficient
drainage cycle
drainage district
drainage gate
drainage inlet
drainage inspector
drainage level
drainage pipe
drainage pit
drainage pump
drainage shaft
drainage system
drainage theory
drainage tile
drainage trap
drainage tube
drainage tunnel
drainage well
drainage wind
drained of color
draining board
draining tile
drake fly
drake foot
drake green
dram apothecaries'
dram avoirdupois
dram filler
dram glass
drama critic
drama league
drama production
drama-writing
dramatic art
dramatic form
dramatic irony
dramatic lyric
dramatic monologue
dramatic overture
dramatic play
dramatic poetry
dramatic series
dramatic soprano
dramatic stroke
dramatic structure
dramatico-musical
dramatis personae
drap d'or
drap-de-berry
drape yourself
drapers teasel
draught off
draught-bridge
dravidian languages
draw a bead on
draw a blank
draw a comparison
draw a conclusion
draw a deep breath
draw a gun on
draw a long breath
draw a parallel
draw a picture
draw a straight furrow
draw ahead
draw an inference
draw and quarter
draw aside
draw away
draw back
draw blank
draw boundaries
draw breath
draw chain
draw cock
draw curtain
draw distinctions
draw dock
draw down
draw first blood
draw forth
draw from
draw game
draw gear
draw hole
draw in
draw in your claws
draw in your horns
draw into
draw it fine
draw lots
draw man
draw near
draw nigh
draw off
draw off the attention
draw on
draw on futurity
draw on the future
draw out
draw over
draw pin
draw play
draw poker
draw press
draw profit
draw rein
draw runner
draw shot
draw slate
draw slip
draw step
draw straws
draw string
draw tab
draw table
draw taper
draw taut
draw tears
draw the attention
draw the breath of life
draw the color line
draw the curtain on
draw the curtains
draw the fangs
draw the fangs of
draw the line
draw the line at
draw the longbow
draw the purse strings
draw the sword against
draw the teeth
draw the teeth of
draw the veil
draw to a close
draw to a head
draw to a peak
draw together
draw top
draw towards
draw up
draw up a plan
draw up a will
draw wages
draw yourself up
draw-
draw-arch
draw-bar
draw-boy
draw-bridge
draw-cut
draw-file
draw-glove
draw-knife
draw-latch
draw-loom
draw-net
draw-out table
draw-plate
draw-sheet
draw-top table
draw-water
draw-well
drawback collet
drawback lock
drawbar horsepower
drawbar load
drawbar pull
drawcut shaper
drawer dovetail
drawer pull
drawer-down
drawer-in
drawer-off
drawer-out
drawer-up
drawing account
drawing awl
drawing bench
drawing block
drawing board
drawing book
drawing card
drawing chalk
drawing chisel
drawing compasses
drawing crayon
drawing desk
drawing die
drawing forth
drawing frame
drawing glove
drawing in
drawing ink
drawing instrument
drawing knife
drawing lots
drawing machine
drawing office
drawing out
drawing paper
drawing pen
drawing pencil
drawing pin
drawing pliers
drawing power
drawing press
drawing punch
drawing room
drawing rooms
drawing shave
drawing slate
drawing string
drawing table
drawing thread
dream-haunting
dream-hole
dream-per turbed
dream-stricken
dreamer of dreams
dreamless sleep
dreamlike thinking
dreamy abstraction
dreamy-eyed
dreamy-minded
dreamy-souled
dreamy-voiced
drear-nighted
drear-white
dreary-eyed
dreary-looking
dreary-minded
dreary-souled
dredge belt
dredge boat
dredge box
dredge bucket
dredge can
dredge chain
dredge gear
dredge hoist
dredge hopperman
dredge hull
dredge ladder
dredge malt
dredge net
dredge out
dredge pipe
dredge pontoon
dredge pump
dredge rope
dredge up
dredger bucket
dredging box
dredging bucket
dredging machine
dree-draw
dregs of society
drenched with sweat
drenching rain
dress blues
dress cap
dress circle
dress coat
dress designer
dress down
dress face
dress form
dress goods
dress in
dress out
dress parade
dress rehearsal
dress sheers
dress shield
dress ship
dress shirt
dress shop
dress suit
dress the hair
dress the house
dress the wounds
dress tie
dress to kill
dress uniform
dress up
dress whites
dress-coated
dress-maker
dress-making
dress-up
dressed fit to kill
dressed to advantage
dressed to kill
dressed to the nines
dressed to the teeth
dressed up
dresser cutter
dresser set
dresser spindle
dresser spooler
dresser top
dresser trunk
dressing case
dressing down
dressing forceps
dressing glass
dressing gown
dressing jacket
dressing room
dressing sack
drill pointer
drill press
drill rack
drill ratchet
drill regulation
drill rest
drill room
drill sergeant
drill shank
drill sharpener
drill ship
drill sleeve
drill socket
drill speeder
drill spring
drill stand
drill steel
drill straightener
drill team
drill tester
drill tower
drill track
drill twister
drill worker
drill yard
drill-like
drilling bit
drilling fluid
drilling hammer
drilling jig
drilling journal
drilling machine
drilling mud
drilling stem
drilling track
drink a stirrup cup
drink a toast to
drink bottoms-up
drink deep
drink hard
drink in
drink in with rapt attention
drink like a fish
drink mixer
drink money
drink off
drink offering
drink seriously
drink the health of
drink to
drink up
drink-hael
drink-hail
drinker moth
drinking age
drinking bout
drinking cup
drinking fountain
drinking glass
drinking horn
drinking house
drinking mug
drinking place
drinking saloon
drinking song
drinking straw
drinking time
drinking trough
drinking vessel
drinking vessels
drinking water
drinking-up time
drip band
drip board
drip box
drip cap
drip cock
drip coffee
drip coffee maker
drip cup
drip grind
drip groove
drip joint
drip loop
drip molding
drip oil
drip pan
drip pipe
drip pocket
drip primrose
drip sheet
drip tank
drip tip
drip transfusion
drip tray
drip treatment
drip trough
drip valve
drip-dried
drip-drip
drip-drop
drip-dry
drip-drying
drip-ground
dripping pan
dripping point
dripping wet
drive a bargain
drive a hard bargain
drive a roaring trade
drive ahead
drive an entering wedge
drive animals
drive at
drive away
drive back
drive crazy
drive dull care away
drive fit
drive from your thoughts
drive home to
drive in
drive insane
drive into a corner
drive into the open
drive into your head
drive mad
drive nozzle
drive off
drive on
drive out
drive screw
drive shaft
drive shoe
drive stakes
drive the pen
drive the pencil
drive to despair
drive to desperation
drive to leeward
drive to ruin
drive to the bad
drive to the dogs
drive to the wall
drive together
drive train
drive up the wall
drive wheel
drive whist
drive you hard
drive you mad
drive yourself
drive-
drive-in
drive-in restaurant
drive-in theater
driveling idiot
driven from pillar to post
driven snow
driver ant
driver mast
driver's license
driver's seat
driving age
driving and striking force
driving axle
driving band
driving barrel
driving bit
driving board
driving box
driving chain
driving clock
driving dog
driving drum
driving face
driving fit
driving force
driving gear
driving horn
driving horse
driving iron
driving licence
driving mashie
driving mirror
driving out
driving park
driving plate
driving power
driving punch
driving rain
driving range
driving sail
driving shaft
driving snow
driving spring
driving wagon
driving wheel
driving-box
driving-wheel
drizzle-drozzle
drizzling mist
drof-land
drogue chute
droit des gens
droit du seigneur
droits des gens
dromedary corps
dromos tomb
drone bass
drone bee
drone cell
drone fly
drongo cuckoo
drongo shrike
droop-eared
droop-headed
droop-nosed
drooping spirits
drop a bomb
drop a brick
drop a hint
drop a letter
drop a line
drop a tear
drop all idea of
drop anchor
drop arch
drop asleep
drop away
drop bar
drop behind
drop biscuit
drop black
drop bolt
drop bomb
drop bottom
drop box
drop by
drop by drop
drop cannon
drop chalk
drop chronograph
drop cloth
drop cooky
drop cord
drop curtain
drop dead
drop down
drop ear
drop elbow
drop ell
drop fly
drop folio
drop forge
drop forging
drop frame
drop from sight
drop from the clouds
drop from your thoughts
drop front
drop game
drop girt
drop glass
drop goal
drop guide
drop hammer
drop hammerman
drop handle
drop hanger
drop head
drop in
drop in on
drop in temperature
drop in the bucket
drop in the ocean
drop in your tracks
drop initial
drop into a good thing
drop it
drop jaw
drop keel
drop key
drop kick
drop lamp
drop leaf
drop letter
drop like a hot potato
drop line
drop number
drop off
drop on
drop out
drop out of society
drop panel
drop pass
drop pit
drop press
drop roller
drop rudder
drop scene
drop scone
drop screen
drop seat
drop serene
drop shipment
drop shipper
drop shot
drop shutter
drop siding
drop stitch
drop strake
drop stroke
drop sulphur
drop table
drop tank
drop tee
drop testing machine
drop the ball
drop the curtain
drop the handkerchief
drop the hook
drop the mooring
drop the subject
drop to pieces
drop valve
drop vie
drop weight
drop window
drop wire
drop worm
drop your eyes
drop your gaze
drop your guard
drop zinc
drop-
drop-away
drop-bottom bucket
drop-center rim
drop-eared
drop-forged
drop-forged
drop-forging
drop-forging die
drop-front
drop-kick
drop-kicker
drop-leaf
drop-leaf table
drop-leg
drop-letter
drop-meal
drop-off
drop-out
drop-out current
drop-out voltage
drop-scene
drop-shaped
drop-stich
drophead coup
droplet fall
droplet infection
dropped egg
dropped eggs
dropped from the clouds
dropped girt
dropped scone
dropped seat
dropper fly
dropper-on
dropping anchor
dropping angle
dropping bottle
dropping out
dropsy plant
dropsy-dry
dropsy-sick
drought-parched
drought-resisting
drought-stricken
drove chisel
drove work
dove-road
drown care
drown out
drown your sorrows
drowned coast
drowned valley
drowning rain
drowse off
drug abuser
drug addict
drug addiction
drug beetle
drug bottler
drug carriage
drug clerk
drug compounder
drug culture
drug dependence
drug dose
drug fiend
drug grinder
drug habit
drug ice
drug in the market
drug mixer
drug on the market
drug packet
drug pulverizer
drug pusher
drug rash
drug seller
drug store
drug treatment
drug trip
drug user
drug weigher
drug-addicted
drug-damned
drug-grinding
drug-mixing
drug-pulverizing
drug-selling
drug-using
drugged sleep
drugged with sleep
drugstore beetle
drugstore complexion
drugstore cowboy
druid stone
drum armature
drum brake
drum clock
drum controller
drum corps
drum dam
drum escapement
drum feed
drum language
drum major
drum majorette
drum malt
drum memory
drum music
drum out
drum paneling
drum puller
drum sander
drum saw
drum scale
drum screen
drum sieve
drum slide
drum spool
drum stuffing
drum switch
drum table
drum up
drum washer
drum wheel
drum winding
drum-major
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
drumble-drone
drumhead cabbage
drumhead court-martial
drumhead justice
drumming out
drummond light
drumstick tree
drunk as a fiddler
drunk as a lord
drunk as a piper
drunk as an owl
drunkard's chair
drunken brawl
drunken carousal
drunken plant
drunken revelry
drunken rye grass
drunken saw
dry air
dry ammunition
dry as a bone
dry as dust
dry battery
dry beater
dry bed
dry behind the ears
dry bone
dry bones
dry cell
dry cereal
dry cleaner
dry cleaning
dry compass
dry cooper
dry distillation
dry dock
dry farm
dry farmer
dry farming
dry fire
dry fly
dry fog
dry freeze
dry fresco
dry gangrene
dry garden
dry goods
dry goods dealer
dry goods store
dry hole
dry ice
dry kiln
dry lake
dry land
dry law
dry martini
dry measure
dry milk
dry miller
dry mixer
dry mop
dry nurse
dry offset
dry out
dry pint
dry pipe
dry plate
dry pleurisy
dry point
dry puddling
dry quart
dry rent
dry rot
dry run
dry sailing
dry sailor
dry season
dry socket
dry spinner
dry steam
dry sterile thunder without rain
dry storage
dry up
dry wash
dry well
dry wine
dry wit
dry womb
dry-air pump
dry-as-dust
dry-beat
dry-blowing
dry-bone ore
dry-boned
dry-bones
dry-brush
dry-bulb thermometer
dry-burnt
dry-clean
dry-cleanse
dry-cleansed
dry-cleansing
dry-cure
dry-curing
dry-dock
dry-dye
dry-eared
dry-eyed
dry-farm
dry-fine
dry-fist
dry-fly
dry-fly fishing
dry-foot
dry-footed
dry-footing
dry-founder
dry-fruit
dry-grind
dry-gulch
dry-handed
dry-heat cure
dry-ki
dry-land blueberry
dry-land farming
dry-leaved
dry-lipped
dry-looking
dry-mouthed
dry-nurse
dry-nursed
dry-nursing
dry-paved
dry-pick
dry-pipe system
dry-pipe valve
dry-plate process
dry-powder extinguisher
dry-press
dry-press process
dry-roasted
dry-rot
dry-rotted
dry-rub
dry-sail
dry-salt
dry-salted
dry-scrubbed
dry-shave
dry-shod
dry-shoot
dry-skinned
dry-soled
dry-soled
dry-stone
dry-tamp machine
dry-throated
dry-tongued
dry-weather flow
dry-weather vine
drying blotter
drying cabinet
drying chamber
drying fan
drying floor
drying frame
drying house
drying kiln
drying loft
drying oil
drying oven
drying pan
drying paper
drying rack
drying room
drying shed
drying tray
drying tube
drying up
drying yard
dryland farming
drynness fraction
du Bellay
du Cerceau
du Nouy tensiometer
du Vigneaud
du jour
dual carriageway
dual citizenship
dual controls
dual highway
dual nationality
dual personality
dual pricing
dual purpose fund
dual space
dual-control trainer
dual-purpose
dub bright
dub in
duc de Rivoli
duces tecum
duchesse bed
duck-billed dinosaur
duck-billed platypus
duck-egg
duck-egg blue
duck-footed
duck-hawk
duck-legged
duck-retter
duck-toed
duckbill cat
duckbill gar
duckbill platypus
ducking stool
ducking-pond
ducking-stool
ducks and drakes
ducktail haircut
duckweed family
duct keel
ductless gland
dadder grass
dude ranch
dude up
due bill
due course
due course of law
due date
due north
due process
due process of law
due punishment
due reward
due season
due sense of
due to
dueling pistol
dues-paying member
duff up
duffel bag
duffel coat
duffle coat
dug-out
dug-up
duke cherry
dukey rider
dulcimer harpsichord
dull as dish water
dull as dishwater
dull as ditchwater
dull bitterness of cold
dull hearing
dull of hearing
dull of mind
dull the pain
dull thud
dull tool
dull-brained
dull-browed
dull-colored
dull-eared
dull-edged
dull-eyed
dull-head
dull-headed
dull-headedness
dull-lived
dull-looking
dull-pated
dull-pointed
dull-red
dull-scented
dull-sighted
dull-sightedness
dull-sounding
dull-spirited
dull-surfaced
dull-toned
dull-tuned
dull-voiced
dull-witted
dull-wittedness
dulse dealer
dulse-green
duly constituted
dum spiro spero
dum vivimus vivamus
dumb Dora
dumb ague
dumb animal
dumb barge
dumb barter
dumb bid
dumb bunny
dumb cane
dumb cluck
dumb compass
dumping device
dumping duty
dumping grate
dumping ground
dumping machine
dumping place
dumping press
dumping truck
dumping wagon
dumping cactus
dumpy level
dun crow
dun diver
dun fly
dun-belted
dun-bird
dun-brown
dun-colored
dun-diver
dun-drab
dun-driven
dun-haunted
dun-olive
dun-plagued
dun-racked
dun-red
dun-white
dun-yellow
dun-yellowish
duncan phyfe
dunce cap
dunce's cap
dundathu pine
dundrea- ries
dune buggy
dune dweller
dune forest
dune grass
dune heath
dune land
dune marsh
dune plant
dune sand
dung bath
dung beetle
dung cart
dung chafer
dung fly
dung fork
dung heap
dung pit
dung worm
dung-cart
dung-fork
dunga-runga
dunghill fowl
dunk tree
duo-
duodecim-
duodecimal system
duodecuple scale
duoden-
duodenal ulcer
duodiode-triode
dupable person
duple measure
duple ratio
duple rhythm
duple time
duplex apartment
duplex bed
duplex boiler
duplex escapement
duplex house
duplex lock
duplex oxygenator
duplex process
duplex pump
duplex purchase
duplex telegraphy
duplex-numeric index
duplexity theory
duplicate bridge
duplicate plate
duplicate-pinnate
duplicating machine
duplication of effort
duplication of the cube
duplicato-
duplicato-dentate
duplicato-serrate
duplicato-ternate
duplicity principle
duplicity theory
dura mater
durable goods
durable press
durance vile
durango root
durante vita
durfa grass
durfee grass
during the interval
during the time
during the time that
during which time
durry-dandy
durum wheat
dusk dark
dusk-down
dusky grouse
dusky shark
dusky-browed
dusky-colored
dusky-faced
dusky-mantled
dusky-raftered
dusky-sandaled
dust ball
dust band
dust bin
dust bowl
dust brush
dust cap
dust cart
dust chamber
dust cloak
dust cloud
dust coat
dust count
dust counter
dust cover
dust devil
dust down
dust exhaust
dust extractor
dust furrow
dust gun
dust heap
dust in the eyes
dust infection
dust jacket
dust louse
dust mop
dust mulch
dust of ages
dust off
dust process
dust remover
dust ruffle
dust seal
dust shot
dust storm
dust thrown in the eye
dust trunk
dust well
dust whirl
dust your jacket
dust-bath
dust-begrimed
dust-box
dust-brand
dust-colored
dust-counter
dust-covered
dust-dry
dust-gray
dust-laden
dust-laying
dust-point
dust-polluting
dust-producing
dust-soiled
dust-throwing
dust-tight
dust-up
duster coat
duster-off
dusting brush
dusting colors
dusting powder
dusting-powder
dusty clover
dusty death
dusty miller
dutch clover
dutch courage
dutch door
dutch elm disease
dutch hoe
dutch lunch
dutch oven
dutch treat
dutch uncle
duties and responsibilities
duty calls you to
duty officer
duty visit
duty-bound
duty-free
duty-free shop
dvi-manganese
dwarf Japanese quince
dwarf Juneberry
dwarf alder
dwarf banana
dwarf bean
dwarf chestnut
dwarf cornel

dwarf crested iris
dwarf door
dwarf fan palm
dwarf ginseng
dwarf goldenrod
dwarf laurel
dwarf mallow
dwarf meadow grass
dwarf morning-glory
dwarf nasturtium
dwarf palmetto
dwarf poinciana
dwarf star
dwarf sumac
dwell in
dwell in your memory
dwell on
dwell upon
dwelling house
dwelling place
dwelling upon
dy-
dyadic system
dyakis-dodecahedron
dycrete process
dye bag
dye base
dye bath
dye boiler
dye box
dye bucket
dye grinder
dye in the wool
dye maker
dye mixer
dye pine
dye pot
dye remover
dye sensitizing
dye tank
dye therapy
dye transfer
dye tub
dye vat
dye works
dye your hands in blood
dyed in the wool
dyed-in-the-wool
dyer's furze
dyer's greenweed
dyer's rocket
dyer's woodruff
dyer's-broom
dyer's-greenweed
dyer's-weed
dyewood clipper
dyewood cutter
dyewood extract
dyewood grinder
dyewood liquor
dyewood miller
dying away
dying breath
dying day
dying down
dying for
dying hour
dying off
dying to
dying word
dying words
dynam-
dynamic economics
dynamic electricity
dynamic energy
dynamic geology
dynamic lift
dynamic markings
dynamic meteorology
dynamic microphone
dynamic pressure
dynamic psychology
dynamic speaker
dynamic stability
dynamic symmetry
dynamic wind rose
dynamical astronomy
dynamical stability
dynamite bomb
dynamite cap
dynamite glycerin
dynamite gun
dynamite maker
dynamite mixer
dynamite thawer
dynamo belting
dynamo brush
dynamo casting
dynamo commutator
dynamo erector
dynamo lubricator
dynamo winder
dynamo-
dynamometric governor
dynatron oscillator
dyne centimeter
dyne-seven
dys-
dysenteric arthritis
dysentery root
dzera-a-rabry pik
dzera-a-torky pik
e layer
e pluribus unum
e region
e-eV
each and all
each and every
each and every one
each in its turn
each one
each other
each to each
each-where
eager assent
eager attention
eager beaver
eager-eyed
eager-hearted
eager-looking
eager-minded
eager-seeming
eagle bird
eagle boat
eagle claw
eagle eye
eagle feather
eagle fern
eagle flower
eagle gull
eagle hawk
eagle lectern
eagle owl
eagle plume
eagle ray
eagle rock
eagle scout
eagle vulture
eagle wing
eagle-billed
eagle-eyed
eagle-flighted
eagle-hawk
eagle-headed
eagle-pinioned
eagle-seeing
eagle-sighted
eagle-winged
eagle-wood
ear conch
ear cornet
ear coverts
ear crystal
ear drops
ear dust
ear flap
ear fly
ear for music
ear for, an
ear fungus
ear guard
ear index
ear leaf
ear lobe
ear mold
ear muff
ear of corn
ear off
ear piercer
ear reach
ear rot
ear sand
ear shell
ear snail
ear specialist
ear stone
ear tag
ear tick
ear tree
ear trumpet
ear wagon
ear, nose, and throat specialist
ear-ache
ear-brisk
ear-cockie
ear-deafening
ear-filling
ear-leaved
ear-mark
ear-minded
ear-mindedness
ear-piercing
ear-rending
ear-rent
ear-ring
ear-splitting
ear-to-ear grin
ear-trumpet
ear-wax
ear-witness
eardrop tree
eared seal
earl duck
earl marshal
earl marshall
earl palatine
earless lizard
earless seal
earlier state
earliest inhabitant
earls palatine
early bird
early blight
early closing
early comer
early death
early edition
early enough
early grave
early hour
early meadow grass
early meadow rue
early mesquite
early on
early purple orchid
early renaissance
early riser
early saxifrage
early stage
early symptom
early times
early warning
early warning system
early wood
early years
early-type star
early-warning radar
earn a bad name
earn a livelihood
earn a living
earn your keep
earned income
earned run
earned run average
earned surplus
earnest money
earnest-penny
earning grass
ears more deaf than adders
earth almond
earth apple
earth art
earth artist
earth auger
earth battery
earth bob
earth bread
earth cell
earth chestnut
earth circuit
earth closet
earth club
earth color
earth colour
earth crab
earth crust
earth current
earth division
earth dweller
earth flax
earth flea
earth foam
earth goddesses
earth hog
earth hole
earth house
earth hunger
earth induction compass
earth inductor compass
earth ivy
earth life
earth lodge
earth louse
earth metal
earth metals
earth moss
earth mother
earth movement
earth orbit
earth owl
earth pig
earth pillar
earth pitch
earth plate
earth plum
earth quadrant
earth science
earth smoke
earth spirit
earth spring
earth stopper
earth table
earth tide
earth tilting
earth tone
earth tremor
earth up
earth wave
earth wax
earth wire
earth wolf
earth's crust
earth-apple
earth-ball
earth-board
earth-born
earth-bound
earth-boundness
earth-convulsing
earth-delving
earth-destroying
earth-devouring
earth-din
earth-dwelling
earth-eating
earth-engendered
earth-fed
earth-god
earth-goddess
earth-homing
earth-light
earth-lit
earth-mad
earth-moving
earth-nut
earth-old
earth-refreshing
earth-rending
earth-shaking
earth-sounds
earth-sprung
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
earthnut oil
earthquake insurance
earthquake-proof
ease in
ease matters
ease of belief
ease off
ease one of
ease out
ease the helm
ease the rudder
ease up
ease up to
ease your load
ease yourself
ease-off
ease-up
easel-picture
easement curve
easier said than done
easily attained
easily first
easily reached
easily taken in
easily understood
easing of relations
easing of the load
easing of the way
easing sparrow
east Greenland current
east by north
east by south
east india
east indian
east indies
east wind
east-country
east-end
east-northeast
east-northeastward
east-northeastwardly
east-sider
east-southeast
east-southeastward
east-southeastwardly
east-windy
easter egg
easter lily
easter monday
easter-day
easterly wave
eastern coral snake
eastern crown
eastern diamondback rattlesnake
eastern hemisphere
eastern hemlock
eastern kingbird
eastern orthodox
eastern red cedar
eastern time
easting down
easy aces
easy as falling off a log
easy as pie
easy chair
easy circumstances
easy come
easy come, easy go
easy death
easy does it
easy end
easy game
easy go
easy going
easy lay
easy mark
easy mind
easy money
easy of belief
easy on the eyes
easy pickings
easy prices
easy purse strings
easy rider
easy slope
easy street
easy target
easy temper
easy thing
easy to be seen
easy to get along with
easy to speak to
easy to understand
easy victory
easy virtue
easy winner
easy woman
easy-fitting
easy-flowing
easy-going
easy-hearted
easy-humored
easy-mannered
easy-minded
easy-natured
easy-paced
easy-rising
easy-running
easy-spoken
eat away
eat crows
eat dirt
eat heartily
eat heartily
eat high off the hog
eat humble pie
eat in
eat into
eat like a bird
eat like a horse
eat off the same trencher
eat out
eat out of house and home
eat out of your hand
eat sparingly
eat the bread of idleness
eat the dust of
eat the wind out of
eat to live
eat to windward
eat to windward of
eat up
eat up the road
eat up the track
eat you out of house and home
eat your fill
eat your head off
eat your heart out
eat your terms
eat your words
eat, drink, and be merry
eat-all
eaten up
eaten up with curiosity
eaten-leaf
eater-out
eating house
eating tobacco
eating up
eau de Cologne
eau de Javelle
eau de cologne
eau de jasmin
eau de lavande
eau de nil
eau de rose
eau de toilette
eau de vie
eau de vie de marc
eau forte
eau minerale
eau-de-vie
eaux minerales
eave trough
eaves catch
eaves swallow
eaves trough
eavy-soled
ebb anchor
ebb and flow
ebb of life
ebb sleeper
ebb tide
eboe light
eboe oil
ebony family
ebony spleenwort
ec-
ecaille work
ecca leobion
ece homo
ecce signum
ecce grass
ecclesi-
ecclesiastical calendar
ecclesiastical council
ecclesiastical court
ecclesiastical insignia
ecclesiastical law
ecclesiastical mode
ecclesiastical society
ecclesiastico-military
ecclesiastico-secular
eccrine gland
echelette grating
echelle grating
echelon grating
echelon lens
echin-
echino-
echo attachment
echo back
echo chamber
echo organ
echo pulse
echo signal
echo sounder
echo sounding
echoic word
eclectic medicine
eclipse breeze
eclipse plumage
eclipsing binary
eclipsing variable
eco-
ecological niche
ecological psychology
economic authority
economic blindness
economic class
economic community
economic cycle
economic determinism
economic determinist
economic expansion
economic expert
economic geography
economic geology
economic good
economic growth
economic man
economic planning
economic poison
economic rent
economic science
economic self-sufficiency
economic stagnation
economic strike
economic support
economic system
economic warfare
 economical of words
economics in action
economy class
economy coil
economy of assumption
economy of language
economy of means
economy of words
economy prices
economy size
economy wall
ecrevisse de mer
ecru silk
ect-
ecto-
ectopic pregnancy
ecuminal council
ecuminal movement
ecuminal patriarch
ecuminal patriarchate
ed-
eddy chamber
eddy current
eddy-current brake
eddy-wind
edge effect
edge in
edge iron
edge joint
edge molding
edge off
edge out
edge plane
edge tool
edge tools
edge up to
edge-bone
edge-grain
edge-grained
edge-tool
edge-ways
edging grinder
edging lobelia
edible oil
edit out
edited text
edited version
editio princeps
edition bindery
edition binding
edition time
editiones principes
editor in chief
eggdrop soup
eggs Benedict
eggshell blue
eggshell china
eggshell porcelain
eggy-hot
ego defense
ego defenses
ego ideal
ego trip
ego-id conflict
ego-involve
ego-libido
ego-trip
egoistic ethics
egoistic hedonism
egregious ass
egress Astronomy
egret monkey
egyptian cotton
egypto-
eider down
eider duck
eider yarn
eider-down
eidetic image
eidetic imagery
eidetic memory
eigen-
eight ball
eight bells
eight cut
eight o'clock
eight-angled
eight-armed
eight-ball antenna
eight-celled
eight-cylinder
eight-day
eight-flowered
eight-gauge
eight-hour
eight-oar
eight-oared
eight-ply
eight-quarter cap
eight-spot
eight-square
eight-wheeler
eighter from Decatur
eightfold way
eighth note
eighth rest
eighth stock
eightsome reel
eighty-eight
eighty-eighth
eighty-fifth
eighty-first
eighty-five
eighty-four
eighty-fourth
eighty-nine
eighty-niner
eighty-ninth
eighty-one
eighty-second
eighty-seven
eighty-seventh
eighty-six
eighty-sixth
eighty-third
eighty-three
eighty-two
eis wool
either or
either-or
ejection capsule
ejection seat
ejector seat
eka-aluminum
eka-iodine
ek out
ek out a living
ek out an existence
ek-name
el dorado
eelaeo-
elan vital
elao-
elastic anklet
elastic axis
elastic band
elastic bandage
elastic binder
elastic braid
elastic cement
elastic center
elastic currency
elastic deformation
elastic gel
elastic hosier
elastic hosiery
elastic kneecap
elastic limit
elastic loom
elastic modulus
elastic money
elastic object
elastic paper
elastic rubber
elastic stocking
elastic substance
elastic tape
elastic thread
elastic tissue
elastic varnish
elastic veiling
elastic wave
elastic-seeming
elastic-sided
elbow bender
elbow board
elbow catch
elbow cop
elbow crooker
elbow grease
elbow in
elbow in the ribs
elbow length
elbow rail
elbow telescope
elbow-shaped
elder bark
elder blossom
elder blow
elder fungus
elder hand
elder statesman
elder wine
elder-born
elder-brother
elder-leaved
elder-sister
elderberry wine
eldest hand
eldest of things
eldest-born
elec cement
elected by acclamation
election board
election district
election fraud
election returns
elective operation
electoral college
electoral district
electoral vote
elect-
electra complex
electric arc
electric attraction
electric beaver
electric blanket
electric blue
electric brougham
electric cable
electric candle
electric capacitance
electric car
electric chair
electric charge
electric circuit
electric clock
electric column
electric conduction
electric constant
electric cooker
electric cord
electric current
electric detonator
electric dipole moment
electric discharge
electric drill
electric driller
electric eel
electric exploder
electric eye
electric fan
electric field
electric field intensity
electric field strength
electro-osmotically
electro-pneumatic organ
electro-ultrafiltration
electrocaloric effect
electrochemical series
electroconvulsive therapy
electrode conductance
electrode potential
electrode resistance
electrodeless discharge
electrodynamic speaker
electrohydraulic steering gear
electroless plating
electrolier switch
electrolytic conductor
electrolytic dissociation
electrolytic gas
electrolytic interrupter
electrolytic machining
electrolytic protection
electromagnetic field
electromagnetic induction
electromagnetic interaction
electromagnetic lifting magnet
-electromagnetic moment
-electromagnetic pump
-electromagnetic radiation
-electromagnetic speaker
-electromagnetic spectrum
-electromagnetic tape
-electromagnetic unit
-electromagnetic wave
-electromechanical controller
-electromotive force
-electromotive series
electron accelerator
electron affinity
electron beam
electron camera
electron capture
electron cloud
electron diffraction
electron dynamics
electron emission
electron flow
electron gas
electron gun
electron layers
electron lens
electron magnetic spectroscope
electron micrograph
electron microscope
electron microscopy
electron movement
electron multiplier
electron optics
electron pair
electron physics
electron probe microanalysis
electron ray
electron shells
electron shower
electron spin
electron spin resonance
electron state
electron stream
electron telescope
electron theory
electron theory of atoms
electron theory of electricity
electron theory of solids
electron transfer
electron transport
electron tube
electron tubes
electron volt
electron-beam tube
electron-diffraction camera
electron-image projector
electron-image tube
electron-positron pair
electron-ray tube
electron-volt
electron-wave tube
electronic Bohr magneton
electronic air conditioner
electronic air filter
electronic altimeter
electronic battery
electronic brain
electronic carillon
electronic chronometer
electronic circuit
electronic clock
electronic typewriter
electronic voltmeter
electronic-flash unit
electronic-mechanical control
electronics dictionary
electronics engineer
electronics king
electronics physicist
electropneumatic transducer
electroshock therapy
electrostatic field
electrostatic generator
electrostatic inductio
electrostatic induction
electrostatic lens
electrostatic machine
electrostatic precipitation
electrostatic precipitator
electrostatic printing
electrostatic speaker
electrostatic spraying system
electrostatic storage unit
electrostatic tube of force
electrostatic unit
electrotherapeutic treatment
electrotype press
electrovalent bond
elegant penmanship
elegant variation
elegant writer
elegiac couplet
elegiac distich
elegiac pentameter
elegiac poetry
elegiac stanza
elegiac verse
eleme figs
elemental area
elemental spirit
elementary algebra
elementary arithmetic
elementary dictionary
elementary education
elementary instruction
elementary mathematics
elementary metal
elementary metals
elementary particle
elementary process
elementary quantum of action
elementary school
elementary unit
elemi figs
eleolite syenite
elephant apple
elephant beetle
elephant bird
elephant driver
elephant fish
elephant grass
elephant gun
elephant seal
elephant shrew
elephant's trunk
elephant's trunk snake
elephant's-ear
elephant's-foot
elephant's-foots
elephant-ear fern
elephant-hide pahoehoe
elethera bark
elethero-
elevate your mood
elevated railroad
elevated railway
elevating rudder
elevation Astronomy
elevator angle
elevator boy
elevator car
elevator conductor
elevator conveyer
elevator dredge
elevator girl
elevator man
elevator operator
elevator shaft
elevator shaft elevator signal
elevator signal
elevator starter
eleven o'clock
eleven-o'clock-lady
eleven-plus
eleven-year period
eleventh chord
eleventh hour
eleventh-hour
elf arrow
elf child
elf dance
elf kind
elf kindred
elf knight
elf owl
elf queen
elf-god
elf-lock
elf-shoot
elf-shot
elf-stricken
elf-struck
elf-taken
elfin-tree
eligible paper
elimination contest
elisor jury
elite corps
elite group
elite or long primer
elite troops
elixir of life
elixir vitae
elk bark
elk clover
elk nut
elk-grass
ell-broad
ell-long
ell-wand
ell-wide
ellipsoidal basalt
ellipsoidal lava
elliptic function
elliptic geometry
elliptic integral
elliptic spring
elliptic velocity
elliptic-lanceolate
elliptic-leaved
elliptical function
elliptical galaxy
elliptical light
elliptical polarization
elliptically polarized
elm balsam
elm bark
elm bark beetle
elm blight
elm calligrapha
elm leaf beetle
elm phloem necrosis
elm-leaved
elongato-conical
elongato-ovate
eloquent tongue
elude one
elusion process
elytr-
em dash
em pica
em quad
em space
em-
emanate a smell
emanate from
embalm in the memory
embalmed corpse
embalming fluid
embark in
embark on
embark upon
embarkation deck
embarras de choix
embarras de richesses
embarrassed circumstances
embarrassing position
embarrassing situation
embattled grady
embed itself in the mind
ember day
ember goose
emblem book
emblem of authority
embodied in
embody in words
embol-
embossing plate
embrace a belief
embrace reality
embroidery floss
embroidery frame
embroidery needle
emitter signal voltage
emotional appeal
emotional capacity
emotional charge
emotional deadness
emotional disorder
emotional dissociation
emotional health
emotional instability
emotional instability reaction
emotional insulation
emotional life
emotional nuance
emotional numbness
emotional outburst
emotional paralysis
emotional release
emotional response
emotional shade
emotional shock
emotional support
emotional symptom
emotionally dead
emotionally numb
emotionally paralyzed
emotionally respond
emotionally unstable
emotionally unstable personality
emotive meaning
empathize with
emperor boa
emperor butterfly
emperor moth
emperor penguin
empire builder
empire building
empire cloth
empire day
empire-builder
empiric treatment
empirical existence
empirical fact
empirical formula
empirical politics
employ the time
employ time
employ your time in
employ yourself in
employ yourself upon
employer-owned
employment agency
employment agent
employment bureau
employment contract
employment exchange
empress cloth
empress of silence
empress tree
emptiness of mind
empty ceremony
empty claim
empty formality
empty gesture
empty hands
empty morph
empty name
empty of
empty out
empty pocket
empty purse
empty sound
empty space
empty stomach
empty threat
empty title
empty view
empty word
empty words
empty-armed
empty-barreled
empty-bellied
empty-cell process
empty-fisted
empty-handed
empty-handedness
empty-headed
empty-headedness
empty-looking
empty-mind
empty-mined
empty-minedness
empty-mouthed
empty-noddled
empty-paneled
empty-pated
empty-skulled
empty-stomached
empty-vaulted
empty-voiced
emu apple
emu bush
emu grass
emu-wren
emulsion colloid
emulsion paint
en attendant
en avant
en bloc
en brochette
en brosse
en cabochon
en casserole
en clair
en dash
en deshabille
en echelon
en effet
en f
en face
en famille
en garde
en grand seigneur
en grande tenue
en grande toilette
en loge
en masse
en papillote
en passant
en pension
en plein
en plein air
en plein jour
en plus
en prise
en quad
en rapport
en regle
en revanche
en route
en route to
en soleil
en space
en suite
en tapinois
en-
endless chain
endless duration
endless round
endless supply
endless task
endless time
endo salt
endo-
endocentric compound
endocentric construction
endocrine disease
endocrine gland
endoderm disc
endoderm lamella
endogamous group
endomersion lens
endomersion objective
endomorphism ring
endoplasmic reticulum
endorsement in blank
endoscopic camera
endotheli-
endotherm knife
endow with
endow with life
endowed with
endowed with beauty
endowed with life
endowment assurance
endowment insurance
endurance limit
endurance race
endurance ratio
endurance strength
endure forever
endwise coil
enemy aircraft
enemy alien
enemy atrocities
enemy line
enemy lines
energy band
energy charge
energy component
energy level
energy metabolism
energy meter
energy state
energy surface density
energy voltage
energy-consuming
energy-producing
enfant perdu
enfant terrible
enfants perdus
enfants terribles
enforce economies
enforce upon
enforce your claim
enforced respite
engage attention
engage in
engage in a conversation
engage in battle
engage in hostilities
engage in marriage
engage in personalities
engage the attention
engage the mind
engage the thoughts
engage with
engage yourself
engage yourself with
engaged column
engaged in thought
engaged tone
engagement book
engagement ring
engine builder
engine cleaner
engine company
engine control
engine controls
engine cultivator
engine department
engine driver
engine fitter
engine gauge
engine house
engine lathe
engine maker
engine making
engine parts
engine pilot
engine rod
engine room
enharmonic interval
enharmonic modulation
enharmonic note
enharmonic scale
enharmonic tetrachord
enharmonic tie
enigma canon
enigmatic canon
enigmatic question
enigmato-
enjoy a certain position
enjoy friendly relations with
enjoy good health
enjoy good relations with
enjoy prosperity
enjoy single blessedness
enjoy the use of
enjoy your own company
enjoy yourself
enjoying health
enjoyment of property
enlarge the mind
enlarge upon
enlist into service
enlist under the banner of
enlisted man
enlisted woman
enmeshed in
ennea-eteric
enol form
enol-keto isomerism
enough and then some
enough and to spare
enough in all conscience
enough said
enough to drive you mad
enough to get by on
enough to make a preacher swear
enough to provoke a saint
enough to wake the dead
enp-
enroll a jury
ens realissimum
ensemble music
ensemble singing
enshrine in the memory
ensign armorial
ensign fly
ensign staff
ensign-bearer
ensue from
ent-
entangled in
entente cordiale
enter a protest
enter into
enter into competition with
enter into detail
enter into possession
enter into the feelings of
enter into the ideas of
enter into the spirit of
enter into your view
enter into your views
enter on
enter the arena
enter the arena with
enter the lists
enter the ring with
enter upon
enter with a will
enter your mind
enter-
entered hound
entered through another gate
enteric fever
entering wedge
entero-
entertain a belief
entertain a dislike to
entertain a feeling
entertain a theory
entertain an opinion
entertain doubts
entertain guests
entertain ideas
entertain respect for
entertain suspicions
entertain the hope
entertain the idea of
entertain the inner man
entertain thoughts of
entertainment industry
enthrone your own will
enthusiastic about
entire function
entire horse
entire performance
entire satisfaction
entire-leaved
entire-wheat
entitled to
ento-
ento-ectad
entom-
entomo-
entrail pahoehoe
entrance certificate
entrance cone
entrance examination
entrance fee
entrance hall
entrance money
entrance pallet
entrance pupil
entrance-denying
entre nous
entrenching tool
entrust with information
entry card
enula campana
envelope addresser
envelope bander
envelope case
envelope clasp
envelope designer
envelope die
envelope folder
envelope gummer
envelope holder
envelope maker
envelope moistener
envelope opener
envelope printer
envelope sealer
envelope table
envelope top
envelope weigher
environing circumstances
environing phenomena
environmental conservation
environmental disease
environmental diseases
environmental pollution
environmental resistance
envoy extraordinary
enwrap the thoughts
enwrapped in mystery
enzootic ataxia
eo nomine
eo-
eol-
eolian deposit
eolithic man
ep-
epacris family
epana-
epater le bourgeois
epaulet bat
epaulet sleeve
epaulette tree
epenthetic vowel
eph-
ephemeris second
ephemeris time
epi-
epic machinery
epic poet
epic poetry
epic simile
epic theater
epic verse
epicanthic fold
epicyclic train
epicycloidal gear
epicycloidal wheel
epidemic cholera
epidemic disease
epidemic encephalitis
epidemic meningitis
epidemic parotitis
epidemic pleurodynia
epiderm-
epididymo-orchitis
epidote group
epidural anaesthesia
epiglotto-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tarda
epilept-
epiphyse cerebri
episcopal ring
episcopal sandal
episcopal vestments
epistemological idealism
epistemological logic
epistemological realism
epistemological realist
epistle side
epistolary communication
epistolary intercourse
epistolary novel
epitaxial transistor
epitheli-
epithelial pearl
epizootic aphtha
epoch-forming
epoch-making
epoch-marking
epoxy resin
epsilon-delta
epsilon-neighborhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
equal-aqual
equal-area
equal-area projection
equal-armed
equal-balanced
equal-blooded
equal-eyed
equal-glumed millet
equal-handed
equal-headed
equal-limbed
equal-poised
equal-sided
equal-souled
equal-weighted
equaling file
equalization fee
equalization fund
equalization period
equalizer brake
equalizer set
equalizing bar
equalizing dynamo
equalizing file
equalizing gear
equalizing pipe
equalizing pulse
equally pinnate
equals sign
equation clock
equation division
equation movement
equation of state
equation of time
equation price
equation solver
equator coordinates
equatorial telescope
equatorial tide
equatorial trough
equestrian director
equi-
equi-gram-molar
equiangular hyperbola
equilateral hyperbola
equilateral triangle
equilibrium isomerism
equilibrium pressure
equilibrium sense
equilibrium valve
equine distemper
equine encephalomyelitis
equine infectious anaemia
equine infectious anemia
equinoctial circle
equinoctial colure
equinoctial hour
equinoctial line
equinoctial point
equinoctial rains
equinoctial storm
equinoctial year
equipartition of energy
equipment bond
equipment note
equipment trust
equipment trust bond
equipment trust certificate
equipoise rudder
equitable estate
equitable interest
equitable jurisdiction
equitime point
equity capital
equity court
equity of redemption
equity security
equity side
equivalence class
equivalence reaction
equivalence relation
equivalent algebras
equivalent circuit
equivalent focal length
equivalent monoplane
equivalent odds
equivalent weight
era of prosperity
erase all doubt
erase from the memory
erasing shield
erce-
erd shrew
ere long
ere then
erecting prism
erection mark
erector spinae
erg-
ergo proper hoc
ergo propter hoc
ergo sum
ergo-
eristic school
erl-king
erlenmeyer flask
ermine moth
ern-bleater
ern-fern
erosion cycle
erosion surface
eroso-
erotic art
erotic literature
erotic novel
erotic poetry
eroto-
errand boy
errand girl
errare humanum est
erring sister
error corrector
error detector
error in judgment
error in speech
error of closure
error signals
error-blasted
error-darkened
error-prone
error-proof
error-stricken
error-tainted
error-teaching
eruptive fever
erythema induratum
erythema nodosum
erythr-
erythredema polyneuropathy
erythro-
erythroblastosis fetalis
erythroblastosis neonatorum
erythrol tetranitrate
es-
escalator clause
escalator plan
escalier derobe
escallop-shell
escape artist
escape attention
escape by the skin of your teeth
escape clause
escape cock
escape earth
escape hatch
escape into fantasy
escape mechanism
escape notice
escape one
escape pipe
escape prison
escape road
escape route
escape shaft
escape the memory
escape valve
escape velocity
escape wheel
escape with a whole skin
escape without penalty
escape your lips
escapement error
escaping tendency
escort carrier
escort fighter
escort vessel
escort wagon
escutcheon of pretence
escutcheon plate
esemplastic imagination
esemplastic power
eskimo dog
eso-
esophageal ulcer
esophageal speech
esophageo-cutaneous
esophago-enterostomy
esoteric meaning
esoteric reality
esparto grass
espionage agent
espouse a belief
espouse a theory
espouse nonviolence
espouse the cause of
esprit d'escalier
esprit de corps
esprit fort
esquire based
esquisse-esquisse
essay-writing
esse est percipi
esse quam videri
essence d'orient
essence of bergamot
essence of life
essence of mirbane
essence of myrbane
essential amino acid
essential epilepsy
essential facts
essential hypertension
essential matter
essential nature
essential oil
esson day
esson roll
est modus in rebus
establish connection
establish residence
established church
established fact
established way
establishing shot
estate agent
estate and effects
estate at sufferance
estate at will
estate car
estate duty
estate for life
estate for years
estate in expectancy
estate in fee
estate in possession
estate in tail
estate manager
estate of freehold
estate of the realm
estate pour autre vie
estate rubber
estate tail
estate tax
estate waggon
estate wagon
ester gum
ester value
esthesio-
estivo-autumnal
esto perpetua
estragon oil
estral cycle
estrangelo alphabet
estrus cycle
estuarine area
et al
et alii
et cetera
et hoc genus omne
et id genus omne
et seq
et seqq
et sequens
et sic de similibus
et sqq
et tu
etain blue
etalon post
etaoin shrdlu
etch indelibly in the mind
etched glass
etching ball
etching ground
etching needle
etching point
etching silk
etching stitch
etching varnish
eternal damnation
eternal home
eternal life
eternal object
eternal re-creation
eternal recurrence
eternal rest
eternal return
eternal sleep
eternal triangle
eternal universal
eternal verities
eternal youth
eternally the same
eternity ring
eth-
ethane dinitrile
ethanedioic acid
ether drift
ether extract
ether space
ether value
etheric body
etheric double
etheric self
ethyl oenanthate
ethyl oxide
ethyl radical
ethyl sulfide
ethyl urethan
ethyl urethane
ethylene alcohol
ethylene bromide
ethylene chloride
ethylene dibromide
ethylene dichloride
ethylene glycol
ethylene group
ethylene oxide
ethylene radical
ethylene series
ethylidene diethyl ether
ethynyl group
ethynyl radical
eton collar
eton jacket
etymological dictionary
eu-
eu-form
eu-type
eucalyptene hydrochloride
eucalyptus green
eucalyptus gum
eucalyptus oil
eucaryotic cell
eudemis moth
eugenic acid
euglenoid movement
eunuch flute
euonymus scale
eupatorium purple
eupeptic mien
euphoric mien
eur-
eureka red
euro-boreal
europaean-
european plan
european red mite
eury-
eustachian tube
evacuation ambulance
evacuation hospital
evacuation plane
evacuation station
evade responsibility
evade the issue
evaluative criticism
evans-root
evaporated milk
evaporation gauge
evaporation pan
evaporation tank
evasion of responsibility
evasive action
evasive reasoning
evasive reply
eve-churr
eve-jar
eve-star
even break
even chance
even lot
even money
even now
even number
even odds
even off
even out
even pace
even permutation
even so
even stephen
even temper
even tenor
even the score
even trade
even up
even with
even-
even-bell system
even-christian
even-edged
even-handed
even-handedly
even-handedness
even-minded
even-mindedness
even-money
even-numbered
even-old
even-paged
even-pleached
even-set
even-spun
even-star
even-steven
even-tempered
even-tenored
even-toed
even-toothed
even-up
even-wayed
evener-up
evening bag
evening campion
evening class
evening damp
evening devotions
evening dress
evening dun
evening emerald
evening flower
evening gown
evening grosbeak
evening lychnis
evening market
evening mist
evening of the score
evening of your days
evening prayer
evening prayers
evening primrose
evening rose
evening school
evening services
evening shirt
evening star
evening stock
evening trumpet flower
evening up
evening watch
evening's calm and holy hour
evening's close
evening-dressed
evening-glory
evening-primrose family
evening-snow
event horizon
events-per-unit-time meter
ever and again
ever and always
ever and anon
ever less
ever more
ever since
ever so
ever so little
ever so many
ever so much
ever the same
ever-abiding
ever-active
ever-admiring
ever-angry
ever-bearing
ever-being
ever-beloved
ever-blooming
ever-burning
ever-celebrated
ever-changeful
ever-changing
ever-circling
ever-conquering
ever-constant
ever-craving
ever-dear
ever-deepening
ever-dripping
ever-drizzzing
ever-dropping
ever-durable
ever-during
ever-during dark
ever-durininess
ever-dying
ever-echoing
ever-endoingly
ever-esteemed
ever-expanding
ever-faithful
ever-fast
ever-fertile
ever-fresh
ever-friendly
ever-glooming
ever-goading
ever-going
ever-growing
ever-happy
ever-honored
ever-increasing
ever-living
ever-loving
ever-mingling
ever-moving
ever-new
ever-noble
ever-normal granary
ever-present
ever-prompt
ever-ready
ever-recurrent
ever-recurring
ever-renewing
ever-smiling
ever-strong
ever-thrilling
ever-varying
ever-victorious
ever-wearing
ever-white
ever-widening
ever-willing
ever-wise
ever-young
everglade kite
everglade palm
evergreen beech
evergreen bittersweet
evergreen blackberry
evergreen blueberry
evergreen cherry
evergreen clematis
evergreen elm
evergreen grape
evergreen grass
evergreen magnolia
evergreen millet
evergreen oak
evergreen privet
evergreen snakeroot
evergreen thorn
evergreen trumpet flower
evergreen winterberry
evergreen wood fern
everlasting fire
everlasting flower
everlasting moment
everlasting pea
everlasting thorn
everlasting torment
every bit
every bit a
every day
every hour
every inch
every inch a king
every man Jack
every man jack
every moment
every mother's son
every now and then
every once in a while
every one
every one in his turn
every other
every so often
every which way
every whit
every-way
everybody and his uncle
everybody's fool
everything being equal
everything but the kitchen sink
everything that is
everywhere-dense
evet e
eviction clause
evidence in chief
evidence-proof
evil child
evil courses
evil day
evil dispensation
evil disposition
evil eye
evil fortune
evil genius
evil hour
evil humor
evil intent
evil man
evil nature
evil person
evil reputation
evil repute
evil speaking
evil spirit
evil spirits
evil star
evil woman
evil-affected
evil-affectedness
evil-boding
evil-complexioned
evil-disposed
evil-doing
evil-eyed
evil-faced
evil-fashioned
evil-favored
evil-favoredly
evil-favoredness
evil-favoured
evil-featured
evil-fortuned
evil-gotten
evil-headed
evil-hued
evil-humored
evil-impregnated
evil-looking
evil-loved
evil-mannered
evil-minded
evil-minedly
evil-minedness
evil-mouthed
evil-ordered
evil-pieceed
evil-qualitied
evil-savored
evil-shaped
evil-shapen
evil-smelling
evil-sounding
evil-sown
evil-spun
evil-starred
evil-taught
evil-tempered
evil-thewed
evil-thoughted
evil-tongued
evil-weaponed
ever-willed
evil-won
evoked a response
evoked from the dead
evoked potential
evolutionary change
evolve into
ewe bramble
ewe lamb
ewe teg
ewe-daisy
ewe-gowan
ewe-neck
ewe-necked
ex adverso
ex aequo et bono
ex animo
ex ante
ex cathedra
ex coupon
ex div
ex div<
ex dividend
ex facie
ex facto
ex gratia
ex hypothesi
ex int
ex lege
ex lib
ex libris
ex maleficio
ex more
ex natura rei
ex new
ex nihilo nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pede Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex proprietary
ex rights
ex ship tackles
ex silentio
ex store
ex voto
ex voto offering
ex warrants
ex works
ex-
ex-army
ex-cathedra
ex-consul
ex-convict
ex-czar
ex-directory
ex-emperor
ex-employee
ex-enemy
ex-governor
ex-holder
ex-invalid
ex-judge
ex-kaiser
ex-king
ex-libres
ex-librism
ex-librist
ex-mayor
ex-minister
ex-official
ex-officio
ex-pier
ex-praetor
ex-president
ex-quay
ex-rights
ex-service
ex-serviceman
ex-servicemen
ex-ship
ex-voto
exa-
exact counterpart
exact description
exact differential
exact from
exact likeness
exact mates
exact measure
exact science
exactly alike
exaggerate your own merits
exaggerated lengths
exaggerated respect
exalt to the skies
examination by ear
examination of conscience
examination school
examine by ear
examine cursorily
examine point by point
examine side by side
examine the books
examine thoroughly
examine your conscience
examine-in-chief
examining post
examining room
examining side by side
excel at
excel in
excellent accommodations
excellent citizen
excellent companion
excellent manners
excelsior knife
except for
except that
exception taken of
excess demand
excess fare
excess insurance
excess profits tax
excess reinsurance
excess sound pressure
excess sound pressure
excess supply
excess-loss
excess-profits tax
excessive in your praise
excessive interest
excessive irritability
excessive praise
exchange blows
exchange broker
exchange cap
exchange colors
exchange editor
exchange equalization fund
exchange fisticuffs
exchange floor
exchange force
exchange greetings
exchange letters
exchange observations
exchange of blows
exchange of views
exchange opinions
exchange professor
exchange rate
exchange reaction
exchange shots
exchange stabilization fund
exchange student
exchange ticket
exchange transfusion
exchange views
exchangeable base
exchequer bill
exchequer bond
exchequer-chamber
excise tax
excite easily
excite interest
excite notice
excite pity
excite your interest
excited atom
excited imagination
excited state
excited-field speaker
exciter lamp
exciting current
excito-motory
exempli causa
exempli gratia
exempt carrier
exempt from
exemption from hostilities
exercise bone
exercise book
exercise care
exercise device
exercise discrimination
exercise influence
exercise judgment
exercise of memory
exercise of the intellect
exercise self-control
exercise self-restraint
exercise skill
exercise tact
exercise the duties of
exercise the elbow
exercise the functions of
exercise the judgment
exercise the mind
exercise the office of
exercise the right of angary
exercise your option
exert influence
exert pressure
exert strength
exert yourself
exequiae
exhaust box
exhaust cowl
exhaust draft
exhaust every move
exhaust fan
exhaust gas
exhaust head
exhaust horn
exhaust jacket
exhaust lap
exhaust pipe
exhaust port
exhaust price
exhaust pump
exhaust silencer
exhaust steam
exhaust valve
exhaust velocity
exhaust-suction stroke
exhaustive study
exhibit the form of
exhibit your wares
exhibition game fowl
exhibition hall
exhibition room
exi facias
exile tree
exist in
existential operator
existential philosopher
existential philosophy
existential psychology
existential quantifier
existential theology
existential vacuum
existential woe
existing conditions
existing situation
exit card
exit pallet
exit pupil
exo-
exo-condensation
exocentric compound
exocrine gland
exophthalmic goiter
exophthalmic goitre
exorbitant demand
exorbitant interest
exorbitant price
exotic dancer
expand your consciousness
expanded metal
expanding bullet
expanding economy
expanding universe
expanding universe theory
expansion ammeter
expansion attic
expansion bend
expansion bit
expansion bolt
expansion cam
expansion chamber
expansion coupling
expansion curve
expansion engine
expansion fit
expansion gear
expansion joint
expansion pipe
expansion plate
expansion pulley
expansion ring
expansion sleeve
expansion slide
expansion trunk
expansion valve
expansion wave
expansion wheel
expansive bit
expansive classification
expect it of
expect to
expectant treatment
expectant waiting
expectation neurosis
expectation of life
expected of
expected value
expedite your affair
expend your anger on
expense account
experience imaginatively
experience meeting
experience rate
experience religion
experience table
experience vicariously
experienced hand
experiential philosophy
experiment station
experiment upon
experimental animal
experimental design
experimental engineer
experimental engineering
experimental film
experimental logic
experimental medicine
experimental method
experimental proof
experimental psychology
experimental sample
experimental science
experimental scientist
experimental theater
experimental verification
experimenter effect
expert at
expert consultant
expert in
expert in decor
expert rifleman
expert witness
experto credite
expiatory offering
expiatory sacrifice
explain away
explain yourself
explanato-
explanatory remark
explanatory angle
explication de texte
explications de texte
explicit function
exploded view
exploding star
exploit your position
exploratory examination
exploratory operation
exploratory ship
explorer tent
exploring element
explosion bomb
explosion engine
explosion insurance
explosion shot
explosion wave
explosion-proof
explosive D
explosive bullet
explosive charge
explosive d
explosive noise
explosive rivet
exponent proposition
exponential distribution
exponential horn
export bar
export credit
export declaration
export point
export reject
export tax
expose itself
expose to infamy
expose to view
expose yourself
expose yourself to
exposed nerve
exposed to
exposed to view
exposed-tube boiler
expository prose
expository scene
expository writing
exposure hazard
exposure index
exposure meter
express a wish for
express an opinion
express belief
express boiler
express buggy
express by words
express car
express delivery
express general agreement
express in words
express intention
express letter
express prejudice
express regret
express rifle
express sympathy for
express the belief
express train
express wagon
express your appreciation
expressed almond oil
expressed desire
expression mark
expression of ideas
expressionistic abstraction
expressionistic abstractionist
expulsion fuse
expunge all doubt
exquisite manners
exsanguination transfusion
exsanguino transfusion
extend an invitation
extend credit
extend out
extend over
extend the right of fellowship
extend the right of friendship
extend throughout
extend to
extend to the side
extend to the sides
extended bond
extended complex plane
extended coverage
extended family
extended order
extended play
extended real number system
extended term insurance
extended-play
extending everywhere
extension bit
extension bolt
extension courses
extension field
extension ladder
extension lathe
extension of time
extension phone
extension rule
extension spring
extension table
extension-gap lathe
extensive knowledge
extensive study
extensor thrust
extenuating circumstances
exter-marriage
exterior angle
exterior ballistics
exterior paint
exteriorized protoplasm
exterminate with
external account
external acoustic meatus
external affairs
external angle
external appearance
external auditory meatus
external brake
external capsule
external carotid
external ear
external evidence
external frustration
external hemorrhoid
external iliac artery
external jugular vein
external loan
external relation
external respiration
external secretion
external-combustion
external-combustion engine
externally-quenched counter
extinction coefficient
extinction meter
extortionate demand
extortionate price
extra added attraction
extra cover
extra cover point
extra current
extra dash
extra dividend
extra edition
extra pay
extra point
extra sec
extra time
extra-
extra-acinous
extra-alimentary
extra-ammotic
extra-analogical
extra-anthropic
extra-articular
extra-artistic
extra-atmospheric
extra-axillar
extra-axillary
extra-base hit
extra-binding
extra-bound
extra-britannic
extratropical cyclone
extrauterine pregnancy
extreme clipper
extreme cold
extreme heat
extreme height
extreme innerness
extreme left
extreme left wing
extreme left-wing
extreme left-winger
extreme limit
extreme right
extreme right wing
extreme right-winger
extreme rightism
extreme temperatures
extreme tension
extreme unction
extremely high frequency
extrinsic evidence
extrinsic factor
extro-
extruded plastic
extruding press
extrusive rock
exudation pressure
exudative inflammation
exude cheerfulness
exult in
ey st
eye agate
eye appeal
eye askance
eye bank
eye bath
eye bone
eye cap
eye catcher
eye color
eye defect
eye dialect
eye disease
eye doctor
eye dotter
eye draft
eye drops
eye fold
eye for an eye, an
eye for eye
eye ground
eye hungrily
eye lens
eye liner
eye memory
eye nut
eye of a needle
eye of day
eye of the mind
eye opener
eye patch
eye point
eye rhyme
eye shadow
eye socket
eye speculum
eye splice
eye stub
eye to
eye tube
eye wattle
eye worm
eye-appealing
eye-ball
eye-beam
eye-bedewing
eye-beguiling
eye-bewildering
eye-bewitching
eye-blinking
eye-blurred
eye-bold
eye-bolt
eye-bree
eye-brightening
eye-casting
eye-catcher
eye-catching
eye-charmed
eye-checked
eye-conscious
eye-dazzling
eye-delighting
eye-devouring
eye-distracting
eye-draught
eye-ear plane
eye-ear-nose-throat specialist
eye-earnestly
eye-filling
eye-glass
eye-glutting
eye-lash
eye-lotion
eye-minded
eye-mindedness
eye-offending
eye-opener
eye-opening
eye-overflowing
eye-peep
eye-pit
eye-pleasing
eye/popper
eye-popping
eye-rejoicing
eye-rolling
eye-searing
eye-seen
eye-servant
eye-server
eye-service
eye-shot
eye-sick
eye-splice
eye-spotted
eye-starting
eye-string
eye-tooth
eye-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eyeball inspection
eyeball to eyeball
eye-ball-to-eyeball
eye-ball-to-eyeball encounter
eyebrow pencil
eye-glass cloth
eyelet hole
eyelet punch
eyelet-hole
eyepiece micrometer
eyes bigger than the stomach
eyes front
eyes left
eyes only
eyes right
eyes upon
f clef
f layer
f number
f region
f value
f-hole
f-number
f-stop
f1 layer
f2 layer
fa la
fa-la
fable book
fable forger
fable play
fable teller
fable-framing
fabric spring
fabric tire
fabrication tax
fabulous formless darkness
face about
face ague
face angle
face bath
face bone
face bow
face brick
face card
face cards
face chuck
face cleat
face cloth
face cog
face cord
face cover
face cream
face down
face dresser
face dressing
face enamel
face gear
face guard
face hammer
face joint
face lathe
face lifting
face mask
face massage
face milling
face mite
face mold
face molder
face of brass
face out
face pack
face paint
face painter
face painting
face par
face pit
face powder
face presentation
face rouge
face side
face spanner
face specialist
face sponge
face stone
face string
face that would stop a clock
face the music
face to face
face to face with
face to the right-about
face toward
face towel
face up
face up to
face upon
face urn
face validity
face value
face wall
face wheel
face with
face-about
face-ache
face-arbor
face-bedded
face-centered
face-centred
face-harden
face-lift
face-lifting
face-off
face-on
face-saving
face-to-face
faced-lined
faceplate coupling
faceplate jaw
facia board
facial angle
facial appearance
facial expression
facial index
facial massage
facial nerve
facial neuralgia
facial tissue
facies Hippocratica
facies-suite
facile princeps
facilis descensus Averno
facility in writing
facility of speech
facing death
facing distance
facing hammer
facing head
facing lathe
facing sand
facing slip
facing tool
facing-point lock
facing-point switch
facsimile broadcasting
facsimile telegraph
fact distribution
fact of experience
fact of life
fact-finding
factor analysis
factor cost
factor group
factor of adhesion
fagot iron
fagot vote
fagot worm
fail ignominiously
fail in
fail in health
fail in your duty
fail miserably
fail of
fail of success
fail of your ambitions
fail of your hopes
fail safe
fail someone
fail spot
fail to appear
fail to pull out
fail to remember
fail-safe
failed expectation
failing student
failure of memory
failure of nerve
failure to pay
fain of
fain to
faint heart
faint hope
faint likelihood
faint praise
faint resemblance
faint sound
faint-blue
faint-gleaming
faint-glimmering
faint-green
faint-heard
faint-heart
faint-hued
faint-lined
faint-lipped
faint-ruled
faint-run
faint-sounding
faint-spoken
faint-voiced
faint-warbled
fainting fit
faintly like
faintness of sound
fair and pleasant
fair and square
fair as is the rose in May
fair ball
fair catch
fair copy
fair coquette of Heaven
fair day
fair employment
fair expectation
fair field
fair game
fair green
fair hand
fair housing
fair isle
fair lead
fair list
fair maid
fair name
fair or foul
fair play
fair prospect
fair sex
fair shake
fair stitching
fair to middling
fair trade
fair trader
fair weather
fair whites
fair wind
fair words
fair-born
fair-breasted
fair-browed
fair-cheeked
fair-colored
fair-complexioned
fair-conditioned
fair-copy
fair-days
fair-eyed
fair-faced
fair-favored
fair-featured
fairy bluebird
fairy book
fairy butter
fairy candle
fairy cap
fairy circle
fairy club
fairy court
fairy creeper
fairy cup
fairy cycle
fairy fan
fairy finger
fairy flax
fairy gift
fairy glove
fairy godmother
fairy grass
fairy green
fairy haunt
fairy hillock
fairy king
fairy lamp
fairy lily
fairy lint
fairy lore
fairy man
fairy martin
fairy money
fairy pageant
fairy penguin
fairy play
fairy pool
fairy primrose
fairy prion
fairy queen
fairy ring
fairy rose
fairy shrimp
fairy smoke
fairy song
fairy stone
fairy story
fairy swallow
fairy tale
fairy tern
fairy tree
fairy wallflower
fall all over
fall all over yourself
fall among
fall army worm
fall asleep
fall aster
fall astern
fall at the feet of
fall at your feet
fall away
fall back
fall back on
fall back to
fall back to prepared positions
fall back upon
fall behind
fall behindhand
fall between two stools
fall block
fall by the wayside
fall chronometer
fall dandelion
fall dead
fall down
fall down before
fall down dead
fall down on the job
fall down on your knees
fall duck
fall due
fall flat
fall flat as a pancake
fall flat on your ass
fall flat on your face
fall flower
fall for
fall foul
fall foul of
fall from grace
fall from the lips
fall from the mouth
fall from your high estate
fall front
fall grape
fall guy
fall head and ears in love
fall head over heels in love
fall headlong
fall herring
fall in
fall in a faint
fall in line
fall in love
fall in price
fall in the way of
fall in together
fall in with
fall into
fall into a brown study
fall into a habit
fall into decay
fall into despair
fall into disrepute
fall into disuse
fall into error
fall into line
fall into oblivion
fall into order
fall into place
fall into rank
fall into raptures
fall into series
fall into your hands
fall lettuce
fall line
fall meadow rue
fall of Adam
fall of day
fall of man
fall of the cards
fall of the curtain
fall of the dice
fall of the leaf
fall of the year
fall off
fall on
fall on deaf ears
fall on evil days
fall on the ear
fall on your ass
fall on your face
fall on your feet
fall on your knees
fall on your knees before
fall on your knees to
fall out
fall over
fall phonometer
fall poison
fall prostrate
fall rope
fall rose
fall senseless
fall short
fall shy
fall silent
fall snipe
fall star grass
fall stillborn
fall through
fall to
fall to a low ebb
fall to dust
fall to loggerheads
fall to one
fall to pieces
fall to the ground
fall to work
fall to your lot
fall to your share
fall under
fall under your notice
fall upon
fall webworm
fall wheat
fall wind
fall'n into the sere
fall-board
fall-down
fall-in
fall-off
fall-out
fall-plow
fall-sow
fall-trap
fallen angel
fallen arch
fallen countenance
fallen from grace
fallen humanity
fallen nature
fallen state
fallen woman
falling action
false position
false pretences
false pretense
false pretenses
false pretension
false proscenium
false rafter
false reasoning
false redtop
false relation
false representation
false rib
false ribs
false rice
false ridgepole
false saffron
false shade line
false show
false step
false sunflower
false swearing
false teacher
false teeth
false title
false topaz
false vampire
false vocal cord
false vocal cords
false wheat
false witness
false-bedded
false-boding
false-bottomed
false-card
false-dealing
false-derived
false-eyed
false-face
false-face society
false-faced
false-fingered
false-fronted
false-gotten
false-heart
false-hearted
false-heartedly
false-heartedness
false-mermaid family
false-nerved
false-packed
false-plighted
false-principled
false-purchased
false-spoken
false-sworn
false-tongued
false-visored
false-written
falsehood-free
falsify accounts
famble-crop
fame-achieving
fame-blazed
fame-crowned
fame-ennobled
fame-giving
fame-loving
fame-preserving
fame-seeking
fame-sung
fame-thirsting
fame-thirsty
fame-worthy
familia rustica
familial immunity
familiar as household words
familiar friend
familiar friendship
familiar spirit
familiar tune
familiar with
family Bible
family allowance
family altar
family bible
family circle
family compact
family connection
family contract
family counselor
family court
family doctor
family expense
family fare
family favor
family grouping
family homestead
family income policy
family jewels
family likeness
family living
family maintenance policy
family man
family meeting
family name
family of curves
family party
family physician
family plan
family planning
family relationship
family reunion
family romance
family room
family size
family skeleton
family style
family tie
family training
family tree
family wage
family way
family-conscious
family-fare plan
famine bread
famine fever
famine price
famous person
famous persons
fan Fink truss
fan belt
fan blade
fan blower
fan brake
fan club
fan consonant
fan coral
fan cricket
fan dance
fan dancer
fan delta
fan fitter
fan guard
fan heater
fan jet
fan letter
fan magazine
fan maidenhair
fan mail
fan maker
fan marker
fan mill
fan out
fan painter
fan palm
fan pulley
fan pump
fan roof
fan scale
fan shell
fan system
fan tan
fan the embers
fan the fire
fan the flame
fan tracery
fan training
fan tree
fan truss
fan vault
fan vaulting
fan wheel
fan window
fan worm
fan-back chair
fan-bearing
fan-crested
fan-fashion
fan-jet
fan-jet engine
fan-leaved
fan-light
fan-nerved
fan-pleated
fan-shape
fan-shaped
fan-tail
fan-tailed
fan-tailed darter
fan-tan
fan-veined
fan-wing fly
fancied up
fancy Dan
fancy ball
fancy clouds where no clouds be
fancy dive
fancy diver
fancy diving
fancy dog
fancy dress
fancy dress ball
fancy geranium
fancy goods
fancy house
fancy lady
fancy man
fancy price
fancy talk
fancy that
fancy trimmer
fancy up
fancy woman
fancy work
fancy-baffled
fancy-blest
fancy-born
fancy-borne
fancy-bred
fancy-built
fancy-caught
fancy-dress ball
fancy-driven
fancy-fed
fancy-feeding
fancy-formed
fancy-framed
fancy-free
fancy-guided
fancy-led
fancy-loose
fancy-raised
fancy-shaped
fancy-stirring
fancy-struck
fancy-stung
fancy-weaving
fancy-woven
fancy-wrought
fandango bird
fang bolt
fanleaf palm
fanning machine
fanning mill
fanning out
fanny adams
fantail joint
fantail stern
fantasize about
fantastic notion
far afield
far ahead
far and away
far and near
far and wide
far away
far be it from me
far cry
far from it
far goer
far gone
far gone on
far horizon
far off
far on
far other
far out
far past
far piece
far point
far seer
far traveler
far-about
far-advanced
far-aloft
far-away
far-back
far-between
far-borne
far-branching
far-called
far-come
far-cost
far-darting
far-discovered
far-distant
far-down
far-downer
far-driven
far-eastern
far-embracing
far-extended
far-extending
far-famed
far-fet
far-fetch
far-fetched
far-flashing
far-flown
far-flung
far-flying
far-foamed
far-forth
far-gleaming
far-going
far-gone
far-heard
far-horizoned
far-looking
far-loominge
far-northern
far-off
far-offness
far-out
far-parted
far-passing
far-point
far-projecting
far-ranging
far-reaching
far-reachingness
far-removed
far-resounding
far-seeing
far-seen
far-shooting
far-sight
far-sighted
far-sought
far-sounding
far-southern
far-spread
far-spreadinge
far-stretched
far-stretchinge
far-traveled
far-western
faradic electricity
farce comedy
fancy bud
fancy button
fancy pipe
fandel-bound
fare forth
fare well
fare-free
fare-thee-well
fare-ye-well
fare-you-well
farewell performance
farewell-summer
farewell-to-spring
farfetched story
farinaceous plant
farm belt
farm bloc
farm bureau
farm club
farm country
farm economics
farm economy
farm elevator
farm hand
farm interests
farm laborer
farm level
farm loan association
farm loan bank
farm loan bond
farm machine
farm machinery
farm management
farm manager
farm out
farm pond
farm team
farm tractor
farm-bred
farm-engro
farm-house
farm-stead
farm-yard
farmer cheese
farmer drill
farmer in the dell
farmer's lung
farmer-general
farmer-generalship
farmers cooperative
farmers-general
farmhouse loaf
faro bank
faro banker
fart around
farthest bound
farthest off
farthest out
farthest outpost
farthing dip
farthingale chair
farting around
fascia board
fascinated attention
fascine choker
fashion book
fashion designer
fashion gray
fashion house
fashion piece
fashion plate
fashion plate stem
fashion show
fashion writer
fashion-fancying
fashion-fettered
fashion-following
fashion-led
fashion-monger
fashion-setting
fashionable society
fashioning needle
fast and loose
fast asleep
fast boat
fast break
fast by
fast day
fast deal
fast dye
fast food
fast freight line
fast friend
fast friendship
fast groove
fast motion
fast neutron
fast one
fast pace
fast pile
fast rate
fast reactor
fast spiral
fast talk
fast telegram
fast time
fast worker
fast-anchored
fast-bound
fast-breaking
fast-breeder reactor
fast-cleaving
fast-darkening
fast-dye
fast-dyed
fast-fading
fast-falling
fast-feeding
fast-fettered
fast-fleeting
fast-flowing
fast-food chain
fast-footed
fast-gathering
fast-grounded
fast-growing
fast-handed
fast-joint hinge
fast-knit
fast-mass
fast-moving
fast-plighted
fast-rooted
fast-rootedness
fast-running
fast-sailing
fast-settled
fast-stepping
fast-talk
fast-tied
fasten a quarrel on
fasten down
fasten itself on the mind
fasten on
fasten onto
fasten the eyes upon
fasten up
fasten upon
fasten yourself upon
fastening-penny
fastens-een
faster than sound
fastidious person
fat acid
fat as a fool
fat as a hog
fat as a pig
fat as a pork hog
fat as a porpoise
fat as a quail
fat as bacon
fat as brawn
fat as butter
fat back
fat box
fat cat
fat cell
fat chance
fat corpuscle
fat depot
fat gland
fat granule
fat heart
fat hen
fat liquor
fat man
fat mouse
fat of the land
fat oil
fat part
fat pork
fat purse
fat series
fat stock
fat-assed
fat-backed
fat-barked
fat-bellied
fat-bodied
fat-cheeked
fat-choy
fat-edged
fat-engendering
fat-faced
fat-faced type
fat-fed
fat-fleshed
fat-free
fat-head
fat-hen
fat-hipped
fat-legged
fat-necrosis
fat-paunched
fat-reducing
fat-rumped sheep
fat-shunning
fat-soluble
fat-tailed
fat-tailed sheep
fat-witted
fata morgana
fatal accident
fatal blow
fatal hour
fatal-boding
fatal-looking
fatal-plotted
fatal-seeming
fate line
fate worse than death
fate-bowed
fate-denouncing
fate-dogged
fate-environed
fate-foretelling
fate-furrowed
fate-menaced
fate-stricken
fateful moment
fathead minnow
father abbot
father christmas
father complex
father confessor
father family
fault conglomerate
fault current
fault lamp
fault line
fault localizer
fault plane
fault rock
fault rubble
fault scarp
fault surface
fault terrace
fault vent
fault-find
fault-finding
fault-line scarp
fault-slip
faulty comparison
faulty coordination
faulty eyesight
faulty grammar
faulty punctuation
faulty reference
faulty subordination
faulty syntax
faun-colored
faunus butterfly
fause-house
faute de mieux
faux jour
faux pas
faux rondelette
faux-bourdon
faux-na
fava bean
favor with
favorable attention
favorable disposition
favorable opportunity
favorable prospect
favorable regard
favorable vote
favorable wind
favorably disposed
favorably impressed with
favorably inclined
favoring wind
favorite of the gods
favorite son
favors of office
fawn brown
fawn lily
fawn upon
fawn-color
fawn-colored
fawn-colour
faying surface
fear God
fear and trembling
fear holding on a minute longer
fear into the heart of
fear of God
fear that has said its prayers
fear-babe
fear-broken
fear-created
fear-depressed
fear-free
fear-froze
fear-inspiring
fear-palsied
fear-pursued
fear-shaken
fear-stricken
fear-struck
fear-tangled
fear-taught
fearsome-looking
feast and famine
feast day
feast of the soul
feast on
feast upon
feast-or-famine
feather alum
feather an oar
feather ball
feather banding
feather beater
feather bed
feather bleacher
feather boa
feather boarding
feather bolster
feather bonnet
feather brush
feather cleanser
feather cloth
feather columbine
feather crotch
feather curler
feather dresser
feather drier
feather driver
feather duster
feather dyer
feather fan
feather fern
feather finisher
feather geranium
feather grass
feather hyacinth
feather in your cap
feather joint
feather key
feather mail
feather maker
feather making
feather mattress
feather merchant
feather mosaic
feather moss
feather ore
feather out
feather palm
feather part
feather picker
feather pillow
feather pink
feather plume
feather poke
feather renovator
feather scrape
feather sewer
feather shot
feather spring
feather staccato
feather star
feather steamer
feather tick
feather tip
feather tract
feather tree
feather trimmer
feather type
feather valve
feather worm
feather your nest
feather’d rain
feather-bed
feather-covered
feather-duster worm
feather-edge
feather-fleece
feather-footed
feather-head
feather-heeled
feather-leaved
feather-legged
feather-stitch
feather-tail glider
feather-tongue
feather-veined
feather-weight
feather-weighted
feather-work
featherbed rule
feathered songster
featheredge file
feathering float
feathering paddle wheel
feathering screw
featherleaf cedar
feathertail glider
feathertop grass
feature attraction
feature editor
feature story
feature-length
feature-writing
febri-
febrifuge plant
fed to the gills
fed to the teeth
fed up
fed-up
fed-upedness
fed-upness
federal agent
federal assembly
federal district
federal government
federal home loan bank
feed line
feed lot
feed mill
feed mixer
feed motion
feed on
feed packer
feed pipe
feed plate
feed pump
feed rack
feed reel
feed rod
feed roll
feed screw
feed stable
feed store
feed tank
feed the fire
feed the fish
feed trough
feed truck
feed tube
feed upon
feed valve
feed water
feed wheat
feed wheel
feed wire
feed-and-reflector unit
feed-back coil
feed-water heater
feedback amplifier
feedback circuit
feedback conductance
feedback control
feedback inhibition
feedback loop
feedback pulses
feedback signals
feedback system engineer
feedback system engineering
feeder airline
feeder cable
feeder ear
feeder line
feeder plant
feeder reactor
feeder road
feeder-in
feeder-up
feeding bottle
feeding cup
feeding head
feeding point
feeding rod
feeding root
feeding standard
feeding market
feel about it
feel acutely
feel anxious
feel around
feel ashamed of yourself
feel at home
feel at liberty
feel awful
feel better about it
feel cheap
feel confident
feel contempt for
feel creepy
feel deeply
feel disgust
feel easy
feel emotion
feel fine
feel for
feel free
feel funny
feel good
feel happy
feel hungry
feel hurt
feel ill
feel in your bones
feel in your breast
feel in your guts
feel in your viscera
feel intuitively
feel like
feel like a million
feel like the walking dead
feel like yourself
feel no obligation
feel of
feel out
feel pain
feel relief
feel resentment
feel small
feel something terrible
feel sore
feel sorrow for
feel sorry for
feel superior to
feel sure
feel the pangs
feel the pulse
feel the want of
feel under an obligation
feel under the weather
feel unsure
feel up
feel up to
feel with
feel with the fingertips
feel your ground
feel your oats
feel your way
feel yourself
feel yourself again
feeler gauge
feeling awful
feeling cold
feeling evil
feeling faint
feeling for
feeling for language
feeling for words
feeling in your bones
feeling low
feeling of identity
feeling of kinship
feeling of relief
feeling out
feeling something terrible
feeling the pinch
feeling tone
feeling your oats
feery-fary
feet first
feet foremost
feet of clay
feg Dialect
feigned belief
feline agranulocytosis
feline distemper
feline enteritis
fell-fare
fell-field
fell-land
felling wedge
fellow actor
fellow american
fellow apprentice
fellow being
fellow boarder
fellow captive
fellow caucasian
fellow christian
fellow citizen
fellow collegian
fellow commoner
fellow communicant
fellow companion
fellow conspirator
fellow convict
fellow countryman
fellow craftsman
fellow creature
fellow criminal
fellow delegate
fellow disciple
fellow emigrant
fellow employee
fellow exile
fellow explorer
fellow feeling
fellow feeling in suffering
fellow guest
fellow heir
fellow helper
fellow idler
fellow immigrant
fellow laborer
fellow listener
fellow lodger
fellow man
fellow member
fellow mortal
fellow passenger
fellow patriot
fellow pedestrian
fellow plotter
fellow prisoner
fellow pupil
fellow servant
fellow sinner
fellow soldier
fellow student
fellow sufferer
fellow townsman
fellow traveler
fellow traveller
fellow tribesman
fellow victim
fellow villager
fellow worker
fellow workman
fellow worshiper
fellow-commoner
fellow-creature
fellow-feel
fellow-feeling
fellow-heir
fellow-man
fellow-men
fellow-servant rule
fellow-soldier
fellowship porter
felo de se
felo-de-se
felon grass
felon herb
felones-de-se
felony murder
felos-de-se
felsite-porphyry
felt conditioner
felt cutter
felt dauber
felt drier
felt fern
felt former
felt fuller
felt grain
felt hat
felt knife
felt maker
felt oiler
felt packer
felt roller
felt roofer
felt roofing
felt rust
felt sewer
felt side
felt washer
felt weaver
felt worker
felt-jacketed
felt-lined
felt-shod
felt-tip pen
female animal
female being
female gamete
female impersonator
female line
female organ
female organs
female rhyme
female sex
female suffrage
feme covert
feme sole
feme-sole merchant
feme-sole trader
femes covert
femes sole
feminine cadence
feminine caesura
feminine ending
feminine rhyme
feminist therapy
femme de chambre
femme fatale
femmes de chambre
femmes fatales
femoral artery
femto-
fen cress
fen duck
fen farmer
fen farming
fen fever
fen fire
fender pile
fender post
fender skid
fender spar
fender stool
fender wall
fenestration operation
fennel giant
fennel oil
fennel seed
fennel water
fennel-leaved
fer-de-lance
fer-de-moline
ferae naturae
feriae jova
ferling-noble
fermentation alcohol
fermentation gum
fermentation lock
fermentation tube
ferm ally
ferm asparagus
ferm ball
ferm bracken
ferm bush
ferm clubmoss
ferm covert
ferm cycad
ferm green
ferm hook
ferm meadowbur
ferm moss
ferm owl
ferm palm
ferm preserver
ferm scale
ferm scrub
ferm seed
ferm tree
ferm weevil
fern-clad
fern-crowned
fern-fringed
fern-leaved
fern-owl
fern-seed
fern-thatched
ferret badger
ferret out
ferret-badger
ferret-eyed
ferretto zone
ferri-
ferric ammonium oxalate
ferric chloride
ferric dimethylthiocarbamate
ferric oxide
ferric sodium oxalate
ferricyanic acid
ferris wheel
ferrite-rod aerial
ferro-
ferro-carbon-titanium
ferro-concrete
ferro-uranium
ferrocyanic acid
ferroso-
ferrotype tin
ferrous oxide
ferrous sulfate
ferrous sulphate
ferruginous duck
ferry bell
ferry bridge
ferry captain
ferry car
ferry craft
ferry incline
ferry master
ferry pole
ferry rack
ferry rocket
ferry slip
ferry steamer
ferry ticket
ferry warden
ferry-boat
fertile imagination
fertile material
fertile mind
fertile-flowered
fertile-fresh
fertile-headed
fertility cult
fertility god
fertility goddess
fertility spirit
fertility symbol
fertilization cone
fertilization tube
fertilizer ammonia
fertilizer chemical
fertilizer crusher
fertilizer distributor
fertilizer divider
fertilizer drill
fertilizer hand
fertilizer maker
fertilizer making
fertilizer meal
fertilizer mill
fertilizer mixer
fertilizer phosphate
fertilizer plant
fertilizer press
fertilizer sampler
fertilizer spreader
fertilizer tank
fertilizer-crushing
fervent hope
fervent imagination
fescue grass
fess point
fess up
fesse point
festal board
festina lente
festival day
festival of lights
festive occasion
festoon cloud
festoon lighting
festoon pine
festooned pahoehoe
fetal diagnosis
fetal position
fetch a blow
fetch about
fetch and carry
fetch away
fetch breath
fetch candle
fetch down
fetch headway
fetch rod
fetch sternway
fetch up
fetch up all standing
fetch up at
fetch-
fetch-candle
fetch-light
fetched-on
fetching-up
fete champetre
fete day
fete-champetre
feti-
fetid air
fetlock joint
fetlock-deep
fetter bone
feu annual
feu charter
feu d'artifice
feu de joie
feu duty
feu farm
feu farmer
feu-farm
feudal estate
feudal investiture
feudal system
feuille-morte
feux d'artifice
feux de joie
fever bark
fever bird
fever blister
fever chart
fever curve
fever flash
fever fly
fever heat
fever of excitement
fever pill
fever pitch
fever plant
fever reducer
fever sore
fever therapy
fever thermometer
fever treatment
fever tree
fever twig
fever ward
fever-cooling
fever-destroying
fever-haunted
fever-lurden
fever-maddened
fever-reducer
fever-ridden
fever-shaken
fever-sick
fever-smitten
fever-stricken
fever-troubled
fever-warm
fever-weakened
few and far between
few, a
few-acred
few-celled
few-flowered
few-flowered oat grass
few-fruited
few-seeded
few-toothed
fiat justitia ruat caelum
fiat lux
fiat money
fibble-fable
fiber boilerman
fiber bundle
fiber carder
fiber comber
fiber crimper
fiber drafter
fiber dresser
fiber filler
fiber glass
fiber graphite
fiber hackler
fiber mixer
fiber optics
fiber plant
fiber plaster
fiber saturation point
fiber sorter
fiber stitch
fiber turner
fiber wax
fiber-faced
fiber-glass boat
fiber-shaped
fible-fable
fib-
fibre optics
fibrin ferment
fibrino-
fibrinous pneumonia
fibro-
fibro-osteoma
fibroid heart
fibroid inflammation
fibroid phthisis
fibrous grass
fibrous-coated
fibrous-rooted
fickle Chance
fickle finger of fate
fickle-fancied
fickle-headed
fickle-minded
fickle-mindedly
fickle-mindedness
fiction of the mind
fictional form
fictitious name
fictitious person
fid hole
fiddle away
fiddle back
fiddle beetle
fiddle block
fiddle bow
fiddle brace back
fiddle case
fiddle dock
fiddle flower
fiddle head
fiddle maker
fiddle making
fiddle pattern
fiddle with
fiddle-back
fiddle-brained
fiddle-de-dee
fiddle-faced
fiddle-faddle
fiddle-faddled
fiddle-faddler
fiddle-faddling
fiddle-flanked
fiddle-head
fiddle-lipped
fiddle-neck
fiddle-scraping
fiddle-shaped
fiddle-string
fiddle-waist
fiddleback chasuble
fiddler crab
fiddler duck
fiddley house
fiddley opening
fidei-commissum
fideicommissary heir
fidelity bond
fidelity insurance
fidget with
fiduciary bond
fiduciary heir
fiduciary issue
fidus Achates
fie-fie
field armor
field army
field arrow
field artillery
field ash
field bag
field balm
field balsam
field basil
field battery
field bean
field bed
field bee
field beet
field bellwort
field betony
field bindweed
field book
field boot
field bugloss
field camomile
field capacity
field captain
field chickweed
field clerk
field coil
field company
field control
field conventicle
field corn
field cress
field cricket
field crop
field crowfoot
field current
field cypress
field daisy
field day
field dodger
field dog
field driver
field duck
field emission
field event
field fortification
field frame
field garlic
field glass
field glasses
field goal
field grade
field gray
field gromwell
field guidance
field guide
field gun
field hand
field hockey
field holler
field horsetail
field hospital
field house
field ice
field intensity
field ion microscope
field jacket
field judge
field kale
field kitchen
field lark
field larkspur
field lens
field lily
field line
field madder
field magnet
field maneuver
field marigold
field mark
field marshal
field martin
field master
field meeting
field milkwort
field mint
field mouse
field mushroom
field music
field nigelweed
field night
field oak
field of battle
field of blood
field of bloodshed
field of force
field of fractions
field of honor
field of honour
field of inquiry
field of quotients
field of slaughter
field of study
field of view
field of vision
field officer
field order
field park
field pea
field penny-cress
field pine
field plotter
field plover
field poa grass
field poppy
field-control converter
field-controlled
field-convective
field-convective
field-connet
c field-connet
field-day
field-discharge switch
field-effect transistor
field-emission X-ray tube
field-glass
field-holler
fieldmarshal
field-meeting
field-strength meter
field-strip
field-stripped
field-stripping
field-stript
field-transfer switch
field-work
fielded panel
fielder's choice
fielding average
fields of Aalu
fiend from hell
fierce temper
fierce-eyed
fierce-faced
fierce-looking
fierce-minded
fierce-natured
fiere facias
fiery cross
fiery furnace
fiery imagination
fiery ordeal
fiery temper
fiery-bright
fiery-cross
fiery-crowned
fiery-eyed
fiery-faced
fiery-fierce
fiery-flaming
fiery-footed
fiery-helmed
fiery-hoofed
fiery-hot
fiery-kindled
fiery-liquid
fiery-mouthed
fiery-pointed
fiery-rash
fiery-seeming
fiery-shining
fiery-spangled
fiery-sparkling
fiery-spirited
fiery-sworded
fiery-tempered
fiery-tressed
fiery-twinkling
fiery-veined
fiery-visaged
fiery-wheeled
fiery-winged
fiesta de toros
fiesta flower
fiesta taurina
fiestas de toros
fiestas taurinas
fife rail
fife-rail
fifteen-pounder
fifth column
fifth columnist
fifth monarchy
fifth position
fifth venereal disease
fifth wheel
fifth-column
fifth-column activity
fifty cents
fifty percent
fifty-acre
fifty-dollar bill
fifty-eight
fifty-eighth
fifty-fifth
fifty-fifty
fifty-first
fifty-five
fifty-four
fifty-fourth
fifty-mile
fifty-nine
fifty-ninth
fifty-one
fifty-second
fifty-seven
fifty-seventh
fifty-six
fifty-sixth
fifty-third
fifty-three
fifty-two
fifty-year
fiftyty-fifty
fig banana
fig bar
fig bean
fig dust
fig faun
fig finch
fig insect
fig leaf
fig marigold
fig moth
fig out
fig parrot
fig paste
fig soap
fig up
fig wart
fig wasp
fig wax
fig-bird
fig-leaf
fig-shaped
fig-tree
fig-tree wax
fig-wort
figaro sauce
fige de froid
fight a delaying action
fight a duel
fight a holding action
fight against
fight fire with fire
fight for
fight hand-to-hand
fight it out
fight like devils
fight off
fight over
fight shy
fight shy of
fight the good fight
fight the good fight for
fight to the death
fight to the last ditch
fight tooth and nail
fight with
fight with windmills
fight your battles over again
fight your way
fight-off
fighter pilot
fighter-bomber
fighter-interceptor
fighting chair
fighting chance
fighting cock
fighting fish
fighting force
fighting machine
fighting mad
fighting man
fighting ship
fighting top
fighting weight
fights, the
figment of the imagination
figurate number
figurative language
figuratively speaking
figure caster
figure dance
figure dancer
figure eight
figure in
figure of comparison
figure of eight
figure of fun
figure of speech
figure on
figure out
figure skate
figure skater
figure skates
figure skating
file suit for divorce
file tempering
file-fish
file-hard
file-soft
filet lace
filet mignon
filets mignons
fil-
filial generation
filial love
filiate to
filing box
filing card
filing case
filing clerk
filing system
filius nullius
filius populi
filix-mas
fill an office
fill and stand on
fill away
fill cap
fill horse
fill in
fill in for
fill out
fill the air
fill the bill
fill the measure of
fill the mind
fill time
fill to overflowing
fill to the brim
fill up
fill with doubt
fill you in
fill your pockets
fill your shoes
fill-belly
fill-dike
fill-in
fill-paunch
fill-space
fill-up
fille d'honneur
fille de chambre
fille de joie
filled gold
filled milk
filled out
filled to overflowing
filled-system thermometer
filler cap
filler vase
filler wall
filler-in
filler-out
filler-up
filles d'honneur
filles de chambre
filles de joie
fillet cross
fillet head
fillet steak
fillet weld
filletster plane
filli-
filling knitting
filling station
fillister head
fillister plane
fillister screwhead
filly tail
filly-folly
film base
film camera
film caption
film case
film clip
film color
film cutter
film data
film developer
film editor
film evaporator
film exposure
film fern
film gate
film gatefilm gauge
film joiner
film library
film maker
film pack
film paper
film pickup
film play
film printer
film production
film rating
film recorder
film repairer
film sizing
film speed
film star
film strip
film studio
film window
film-eyed
film-free
film-struck
filmy fern
filmy-eyed
filo-
filter bed
filter candle
filter center
filter factor
filter flask
filter in
filter leaf
filter out
filter paper
filter passer
filter plate
filter press
filter pump
filter tip
filter-passing
filter-tipped
filterable virus
filtering flask
filth disease
filth ferment
filth receptacle
filth-borne
filth-created
filth-fed
filth-sodden
filthy humor
filthy language
filthy lucre
filthy person
filthy place
filthy rich
filthy weed
filthy-handed
filum aquae
fin boom
fin colter
fin cutter
fin de siecle
fin fold
fin keel
fin ray
fin whale
fin-backed
fin-fold theory
fin-footed
fin-shaped
fin-spined
fin-stabilized rocket
fin-tailed
fin-toed
fin-winged
final cause
final draft
final examination
final extremity
final hour
final instructions
final lot
final notice
final offer
final proposal
final result
final solution
final stroke
final summons
final touch
final twitch
final warning
final whistle
final words
finance bill
finance capitalism
finance capitalist
finance company
finance corporation
financial assistance
financial backing
find your heart
find your position
find your tongue
find your way into
find yourself
find yourself at
finder switch
finder telescope
finder-point punch
finding list
finding out
finding store
finding-out
fine Italian hand
fine and dandy
fine art
fine art of living
fine arts
fine chemicals
fine distinction
fine feather
fine fettle
fine flavor
fine gentleman
fine hand
fine how-do-you-do
fine kettle of fish
fine lady
fine linen
fine nail
fine palate
fine point
fine print
fine print at the bottom
fine sewer
fine shape
fine structure
fine talk
fine texture
fine whack
fine writer
fine writing
fine-appearing
fine-ax
fine-bore
fine-bred
fine-count
fine-cut
fine-dividing
fine-draw
fine-drawer
fine-drawing
fine-drawn
fine-dressed
fine-drew
fine-eyed
fine-feathered
fine-featured
fine-feeling
fine-fleeced
fine-furred
fine-graded
fine-grain
fine-grained
fine-grainedness
fine-haired
fine-headed
fine-leaved
fine-leaved heath
fine-looking
fine-mouthed
fine-nosed
fine-set
fine-sifted
fine-skinned
fine-spirited
fine-spoken
fine-spun
fine-still
fine-tapering
fine-threaded
fine-timbered
fine-toned
fine-tongued
fine-tooth
fine-tooth comb
fine-tooth-comb
fine-toothcomb
fine-toothed
fine-toothed comb
fine-tricked
fine-wrought
fineness of grain
fineness ratio
finer feelings
finery furnace
finery hearth
fines herbes
finger alphabet
finger bar
finger board
finger bowl
finger brush
finger clamp
finger coral
finger cutting
finger cymbals
finger exercise
finger fern
finger food
finger fracture
finger gate
finger gauge
finger grass
finger grip
finger guard
finger herb
finger hole
finger joint
finger lake
finger lime
finger man
finger mark
finger nut
finger of death
finger or two
finger paint
finger painter
finger painting
finger patch
finger pillory
finger plate
finger post
finger reading
finger ring
finger shell
finger sponge
finger steel
finger tight
finger wave
finger with
finger's breadth
finger's width
finger-ache
finger-and-toe
finger-comb
finger-comb grass
finger-cone
finger-cone pine
finger-cut
finger-end
finger-foxed
finger-marked
finger-paint
finger-pointing
finger-post
finger-shaped
finger-stall
finger-stone
fingers all thumbs
fingertip caress
fingertip coat
fingle-fangle
finis coronat opus
finish in front
finish off
finish up
finish-bore
finish-cut
finish-form
finish-grind
finish-machine
finish-mill
finish-plane
finish-ream
finish-shape
finish-stock
finish-stock change
finish-turn
finished up
finished version
finisher card
finishing change
finishing chisel
finishing nail
finishing school
finishing stove
finishing stroke
finishing tap
finishing touch
finite intersection property
finite number
fire effect
fire engine
fire escape
fire exit
fire extinguisher
fire fan
fire festival
fire fiend
fire fight
fire fighter
fire fighting
fire finch
fire finder
fire flag
fire fungus
fire gilding
fire gilt
fire gilting
fire glass
fire gong
fire grass
fire grate
fire hangbird
fire hat
fire hazard
fire hearth
fire hook
fire hose
fire hydrant
fire inspector
fire insurance
fire iron
fire irons
fire kiln
fire ladder
fire lane
fire lily
fire line
fire loss
fire main
fire maker
fire making
fire mark
fire marshal
fire mist
fire net
fire of demolition
fire of genius
fire off
fire office
fire opal
fire pail
fire patrol
fire patrolman
fire pike
fire pink
fire pit
fire plant
fire point
fire police
fire polishing
fire pot
fire power
fire prevention
fire quencher
fire raft
fire raid
fire raiser
fire red
fire red toner
fire reel
fire resistance
fire retardant
fire retarder
fire risk
fire room
fire root
fire salamander
fire sale
fire salvage
fire sand
fire saw
fire scarlet
fire screen
fire set
fire setting
fire ship
fire shovel
fire shutter
fire slash
fire spirit
fire station
fire step
fire stick
fire stink
fire stop
fire storm
fire support
fire swab
fire tactics
fire temple
fire test
fire the blood
fire thorn
fire tongs
fire tower
fire tree
fire trench
fire tube
fire underwriter
fire up
fire upon
fire walk
fire walking
fire wall
fire warden
fire watcher
fire weather
fire window
fire worker
fire worship
fire worshiper
fire your imagination
fire-
fire-and-brimstone
fire-angry
fire-arm
fire-backed pheasant
fire-ball
fire-baptized
fire-bearing
fire-bellied
fire-bird
fire-boot
fire-born
fire-box
fire-brand
fire-breathing
fire-breeding
fire-burning
fire-burnt
fire-chaser
fire-clad
fire-cracked
fire-crested
fire-cross
fire-crowned
fire-cure
fire-cured
fire-curing
fire-damp
fire-darting
fire-detecting
fire-drake
fire-eater
fire-eating
fire-endurance
fire-endurance test
fire-engine
fire-exit bolt
fire-extinguisher
fire-extinguishing
fire-eyed
fire-fang
fire-flaught
fire-float
fire-flowing
fire-fly
fire-foaming
fire-footed
fire-free
fire-gilded
fire-god
fire-hardened
fire-hoofed
fire-hook
fire-hot
fire-hunt
fire-hunting
fire-iron
fire-leaves
fire-light
fire-lighted
fire-lilies
fire-lily
fire-lipped
fire-marked
fire-master
fire-mouthed
fire-new
fire-pan
fire-pitted
fireproof material
fireworks rocket
firing area
firing battery
firing charge
firing data
firing glass
firing iron
firing line
firing order
firing party
firing pin
firing ring
firing squad
firing step
firing table
firing test
firing tread
firing tube
firm as Gibraltar
firm belief
firm friendship
firm ground
firm hand
firm hold
firm price
firm resolve
firm up
firm-based
firm-braced
firm-chinned
firm-compacted
firm-footed
firm-framed
firm-jawed
firm-joint
firm-minded
firm-nerved
firm-paced
firm-planted
firm-rooted
firm-set
firm-sinewed
firm-textured
firm-written
firmament blue
firmer chisel
firmer gouge
firmly established
firmness of mind
firmness of spirit
firred plywood
first aid
first among equals
first and foremost
first and last
first appearance
first approach
first arrival
first axiom of countability
first base
first baseman
first blush
first blush of the morning
first brightening
first category
first cause
first choice
first class
first comer
first cousin
first crack
first crack out of the box
first derivative
first derived curve
first division
first draft
first edition
first estate
first family
first floor
first flush of the morning
first fruits
first glance
first hand
first harmonic
first impression
first inning
first intention
first lady
first lap
first law of motion
first law of thermodynamics
first lieutenant
first light
first line
first line of battle
first line of defense
first main track
first mate
first mortgage
first mortgage bond
first motion
first move
first name
first night
first of all
first off
first offender
first officer
first option
first or last
first order
first paper
first papers
first person
first philosophy
first place
first position
first post
first principle
first principles
first prize
first quarter
first rate
first reader
first reading
first refusal
first round
first school
first sergeant
first sight
first speed
first stage
first step
first steps
first stomach
first stone
first story
first string
first team
first thing
first tragedian
first violinist
first-order reaction
first-out
first-page
first-past-the-post
first-preferred
first-rate
first-rately
first-rateness
first-rater
first-ripe
first-run
first-seen
first-strike capacity
first-string
first-told
first-written
fiscal agent
fiscal period
fiscal year
fise dog
fish and chips
fish ball
fish beam
fish begonia
fish belly
fish blanket
fish boom
fish bowl
fish breeder
fish breeding
fish cake
fish carrier
fish carver
fish checker
fish coop
fish crane
fish crow
fish culture
fish davit
fish day
fish dinner
fish doctor
fish duck
fish eagle
fish eggs
fish essence
fish eye
fish factory
fish flake
fish flour
fish fly
fish for
fish for compliments
fish fork
fish fry
fish fungus
fish geranium
fish globe
fish glue
fish grass
fish guano
fish hatcher
fish hatchery
fish hawk
fish in troubled waters
fish inspector
fish joint
fish kettle
fish killer
fish knife
fish ladder
fish lead
fish louse
fish manure
fish maw
fish meal
fish mint
fish mold
fish moth
fish net
fish oil
fish or cut bait
fish out
fish out of water
fish owl
fish pearl
fish pendant
fish plank
fish poison
fish pole
fish pomace
fish salt
fish scale
fish scrap
fish slice
fish soup
fish splice
fish stick
fish story
fish tackle
fish tail
fish tape
fish tapeworm
fish to fry
fish tongue
fish torpedo
fish up
fish warden
fish wheel
fish wire
fish young
fish-and-chip shop
fish-and-chips
fish-backed
fish-bellied
fish-belly rail
fish-blooded
fish-canning
fish-cultural
fish-culturist
fish-day
fish-eating
fish-eating bird
fish-eye lens
fish-eyed
fish-fag
fish-fed
fish-feeding
fish-flaking
fish-gig
fish-god
fish-goddess
fish-hatching
fish-hook
fish-producing
fish-scale
fish-scaling
fish-selling
fish-shaped
fish-skin
fish-slitting
fish-tail
fishbone thistle
fishbone tree
fisher-cat
fisherman's bend
fisherman's reef
fisherman's ring
fisherman's staysail
fisherman's sweater
fishery salt
fisheye lens
fishhook cactus
fishhook money
fishing banks
fishing boat
fishing breeze
fishing cat
fishing club
fishing craft
fishing dory
fishing duck
fishing expedition
fishing fleet
fishing float
fishing gear
fishing ground
fishing hook
fishing license
fishing line
fishing net
fishing pole
fishing question
fishing reel
fishing rod
fishing schooner
fishing smack
fishing spear
fishing tackle
fishing vessel
fishing worm
fishskin disease
fishtail bit
fishtail burner
fishtail cutter
fishtail down
fishtail drapery
fishtail landing
fishtail palm
fishtail wind
fishtail-shaped
fishy transaction
fissi-
fission alga
fission bomb
fission fungus
fission particles
fission products
fission reaction
fission reactor
fission-fusion bomb
fissionable material
fissure of Rolando
fissure of Sylvius
fissure vein
fist hatchet
fist law
fist mate
fistulous withers
fit and fine
fit as a fiddle
fit for
fit for a gourmet
fit for a king
fit for sea
fit for society
fit for the dust hole
fit for the junk yard
fit for the wastepaper basket
fit in
fit of abstraction
fit of anger
fit of crying
fit of laughter
fit of temper
fit out
fit plant
fit strip
fit the pattern
fit to be tied
fit to bust
fit to kill
fit to live in
fit together
fit up
fitchy at the foot
fitful sleep
fitness for society
fits and starts
fitted coat
fitted for
fitted out
fitted sheet
fittie-lan
fitting change
fitting out
fitting room
fitting strip
five C's
five W's
five all
five and twenty
five back
five bucks
five cents
five centuries
five dollars
five hundred
five hundred dollars
five hundred rummy
five percenter
five rayed
five senses
five spice powder
five stones
five-acre
five-act
five-and-dime
five-and-ten
five-and-ten-cent store
five-barred
five-barred gate
five-beaded
five-branched
five-by-five
five-card
five-chambered
five-corn
five-cornered
five-corners
five-cut
five-day
five-day fever
five-day week
five-dollar bill
five-dollar gold piece
five-eighth
five-em space
five-faced bishop
five-figure
five-finger
five-fingered
five-fingers
five-flowered
five-foiled
five-foot
five-gaited
five-guinea
five-horned
five-hour
five-hundred-dollar bill
five-inch
five-leaf
five-leafed
five-leaved
five-legged
five-line
five-lined
five-lobed
five-master
five-mile
five-minute
five-minute gun
five-nerved
five-nine
five-o’clock shadow
five-o’clock tea
five-page
five-part
five-part time
five-parted
five-percenter
five-ply
five-pointed
five-pointed star
five-pound
five-quart
five-rater
five-reel
five-reeler
five-ribbed
five-room
five-shooter
five-sisters
five-spot
five-spotted
five-star
five-star general
five-story
five-stringed
five-toed
five-toothed
five-twenty
five-valved
five-volume
five-week
five-year
five-year plan
fivepenny morris
fix a limit
fix in the memory
fix in the mind
fix on
fix the blame for
fix the burden of
fix the date
fix the eyes upon
fix the mind on
fix the mind upon
fix the paternity of
fix the price of
fix the responsibility for
fix the thoughts on
fix the thoughts upon
fix the time
fix to
fix together
fix up
fix upon
fix your attention
fix your gaze
fix your position
fix your thoughts
fix-it shop
fixation abscess
fixation neurosis
fixation pause
fixation point
fixative varnish
fixed and flashing light
fixed arch
fixed asset
fixed assets
fixed belief
fixed capital
fixed charge
fixed charges
fixed cost
fixed costs
fixed feast
fixed idea
fixed in the mind
fixed investment trust
fixed liability
fixed light
fixed mind
fixed oil
fixed opinion
fixed point
fixed price
fixed purpose
fixed regard
fixed resolve
fixed satellite
fixed star
fixed stars
fixed station
fixed trust
fixed upon
fixed-bar
fixed-do
fixed-do system
fixed-focus camera
fixed-head coup
fixed-head coupe
fixed-hub
fixed-hub axle
fixed-income
fixed-point representation
fixed-temperature
fixed-wing aircraft
fixing bath
fixity of purpose
fizz out
fizzle out
fl dr
fl oz
flabby-cheeked
flabelli-
flag captain
flag day
flag down
flag fall
flag flower
flag halyard
flag hoister
flag lieutenant
flag list
flag of convenience
flag of truce
flag officer
flag post
flag rank
flag salute
flag seat
flag signal
flag smut
flag station
flag stop
flag waver
flag waving
flag-bearer
flag-bedizened
flag-man
flag-officer
flag-root
flag-ship
flag-staff
flag-stone
flag-waver
flag-waving
flagellate yourself
flageolet tone
flagging iron
flagon-shaped
flagrant falsehood
flagrante delicto
flail at
flail away at
flail joint
flak jacket
flak ship
flak suit
flak train
flak vest
flake figure
flake manna
flake off
flake out
flake stand
flake tragacanth
flake white
flaked-out
flaky pastry
flambor flamb
flame azalea
flame blue
flame bridge
flame cell
flame color
flame cultivator
flame gun
flame holder
flame ignition
flame lamp
flame lily
flame lousewort
flame manometer
flame microphone
flame nettle
flame out
flame projector
flame reaction
flame red
flame scarlet
flame spectrum
flame standard
flame stitch
flame test
flame tetra
flame thrower
flame trap
flame tree
flame up
flame vine
flame-breasted
flame-breathing
flame-colored
flame-colour
flame-cut
flame-darting
flame-devoted
flame-eyed
flame-faced
flame-feathered
flame-fusion process
flame-haired
flame-of-the-forest
flame-of-the-woods
flame-out
flame-red
flame-robed
flame-shaped
flame-snorting
flame-sparkling
flame-thrower
flame-tight
flame-tipped
flame-tree
flame-uplifted
flame-winged
flames-of-the-woods
flaming torch
flamingo flower
flamingo-flower
flammable material
flan ring
flange bushing
flange coupling
flange joint
flange nut
flange plate
flange pulley
flange rail
flange steel
flange tile
flange union
flank attack
flank company
flank defense
flank file
flank fire
flank guard
flank march
flank movement
flank patrol
flank speed
flank steak
flanker back
flanking angle
flannel cake
flannel flower
flannel moth
flannel plant
flannelmouth catfish
flannelmouth sucker
flap door
flap hinge
flap the memory
flap tile
flap valve
flap-dragon
flap-ear'd knave
flap-eared
flapper dock
flapper skate
flapper-bag
flapping angle
flare light
flare out
flare path
flare rocket
flare star
flare up
flare-out
flare-up
flare-up light
flash across one's mind
flash across the mind
flash back
flash boiler
flash bulb
flash burn
flash butt welding
flash camera
flash card
flash color
flash fire
flash flood
flash gear
flash generator
flash gun
flash in the pan
flash lamp
flash method
flash of light
flash of lightning
flash of wit
flash on the mind
flash pasteurization
flash photography
flash photolysis
flash picture
flash pipe
flash point
flash powder
flash price
flash set
flash spectrum
flash synchronizer
flash test
flash tube
flash up
flash upon one
flash valve
flash welding
flash wheel
flash-board
flash-house
flash-lock
flash-man
flash-pasteurize
flashed brick
flashed glass
flashing block
flashing light
flashing point
flashover voltage
flask-shaped
flask-shaped heart
flat aft
flat and unprofitable
flat arch
flat as a billiard table
flat as a board
flat as a bowling green
flat as a cake
flat as a flounder
flat as a pancake
flat as a tennis court
flat back
flat broke
flat bug
flat calm
flat cap
flat coat
flat contradiction
flat country
flat drill
flat failure
flat fish
flat foot
flat glass
flat in
flat key
flat knit
flat knitting
flat knot
flat market
flat on your back
flat on your belly
flat on your nose
flat out
flat palm
flat pass
flat point lace
flat press
flat race
flat racing
flat rate
flat refusal
flat roof
flat sage
flat sennit
flat silver
flat sour
flat spin
flat tire
flat wash
flat-armed
flat-backed
flat-beaked
flat-bed
flat-bed cylinder press
flat-bed press
flat-billed
flat-boat
flat-bosomed
flat-bottom
flat-bottomed
flat-breasted
flat-browed
flat-cap
flat-cheeked
flat-chested
flat-coated retriever
flat-compound
flat-crowned
flat-decked
flat-ended
flat-faced
flat-floored
flat-fold
flat-foot
flat-footed
flat-footedly
flat-footedness
flat-fronted
flat-grained
flat-handled
flat-hat
flat-hatted
flat-hatter
flat-hatting
flat-head
flat-headed
flat-heeled
flat-hoofed
flat-horned
flat-iron
flat-joint pointing
flat-knit
flat-minded
flat-mouthed
flat-nose
flat-nosed
flat-out
flat-out speed
flat-packed
flat-plate keel
flat-plate printing
flat-ribbed
flat-ring
flat-ring armature
flat-roofed
flat-saw
flat-sawed
flat-sawing
flat-sawn
flat-shouldered
flat-sided
flat-slab construction
flat-soled
flat-sour
flat-toothed
flat-top
flat-topped
flat-turret lathe
flax rust
flax snapdragon
flax spinner
flax star
flax straw
flax vine
flax wheel
flax wilt
flax winder
flax-colored
flax-flower blue
flax-leaved
flax-polled
flax-seed
flax-sick
flaxen-colored
flaxen-haired
flaxen-headed
flaxen-wigged
flaxseed cake
flaxseed coal
flaxseed oil
flea beetle
flea bug
flea collar
flea fair
flea hopper
flea in the ear
flea in your ear
flea in your nose
flea louse
flea market
flea mint
flea weevil
flea-bane
flea-bite
flea-bitten
flea-lugged
fleabane mullet
fleam tooth
fleche de lard
flector tuning
fleece vine
fleece wool
fleece-lined
fleece-vine
fleece-white
fleecy cloud
fleecy-looking
fleecy-white
fleecy-winged
fleer at
fleet admiral
fleet engineer
fleet insurance
fleet milk
fleet street
fleet submarine
fleet-foot
fleet-footed
fleeting impulse
fleesch-gut
flesh and blood
flesh color
flesh crow
flesh eater
flesh flea
flesh fly
flesh fork
flesh glove
flesh hoop
flesh ocher
flesh out
flesh pink
flesh red
flesh show
flesh side
flesh tint
flesh tone
flesh worm
flesh wound
flesh-bearing
flesh-color
flesh-colored
flesh-colour
flesh-consuming
flesh-devouring
flesh-eater
flesh-eating
flesh-fallen
flesh-fly
flesh-pink
flesh-pot
fleshing knife
fleshly delight
fleshly lust
fleshly-minded
fleshpots of Egypt
fleshy fruit
fleshy-fruited
fleur de luce
fleur de lys
fleur-de-lis
fleurs-de-lis
fleurs-de-lys
fleury counterfleury
flex point
flex wing
flex your muscles
flexible shaft
flexible supports
flexible-shaft drill
flexuoso-
flexure plate scale
flick knife
flick of the eyelash
flick you on the raw
flicker of an eye
flicker photometer
flicker photometry
flickering flame
flickering light
flier-out
flight arrow
flight attendant
flight bag
flight control
flight crew
flight deck
flight engineer
flight feather
flight feathers
flight formation
flight indicator
flight instrument
flight leader
flight lieutenant
flight line
flight muscle
flight nurse
flight of fancy
flight of ideas
flight of steps
flight of time
flight of wit
flight officer
flight operation
flight path
flight path angle
flight pay
flight plan
flight reaction
flight recorder
flight shooter
flight shooting
flight simulator
flight song
flight status
flight strip
flight surgeon
flight test
flight tester
flight training
flight-shooting
flight-shot
flight-test
flightless bird
flim-flam
flimflam man
flincher-mouse
flinders grass
fling at
fling down
fling down the gage
fling down the gauntlet
fling down the glove
fling off
fling out
flinging-tree
flint age
flint and steel
flint clay
flint corn
flint glass
flint gray
flint mill
flint miller
flint milling
flint paper
flint paring
flint skinning
flint sponge
flint wheat
flint-dried
flint-glass
flint-lock
flip a coin
flip chart
flip glass
flip of a coin
flip of the coin
flip out
flip side
flip side, the
flip through
flip through the pages
flip your lid
flip your wig
flip-flap
flip-flop
flip-flop circuit
flip-flopped
flip-flopping
flip-flops
flip-up
flipper turns
flipperty-flopperty
flippity-flop
flirt with
flirt with death
flirt with the idea
flirt-gill
flirtation-proof
flirting with death
flitch beam
flitch girder
flitch plate
flitter-mouse
float a bond issue
float a loan
float bowl
float bridge
float builder
float carburetor
float chamber
float copper
float fescue
float fishing
float foxtail
flood tide
flood with light
flood-gate
flood-hatch
flood-tide
floodable length
flooded with light
floodlight projector
floor arch
floor beam
floor board
floor boarding
floor broker
floor chisel
floor clamp
floor cleaner
floor cleaning
floor covering
floor dresser
floor dressing
floor enamel
floor finish
floor furnace
floor hanger
floor joist
floor knob
floor lamp
floor leader
floor line
floor manager
floor mat
floor model
floor mop
floor oil
floor oiler
floor paint
floor pit
floor plan
floor plate
floor play
floor plug
floor pocket
floor polish
floor polisher
floor price
floor push
floor sample
floor sander
floor scraper
floor show
floor slab
floor stain
floor switch
floor system
floor tile
floor timber
floor trader
floor wax
floor waxing
floor-cloth
floor-length
floor-load
floor-walker
flooring beam
flooring block
flooring board
flooring brad
flooring clamp
flooring grating
flooring hatchet
flooring joist
flooring lumber
flooring nail
flooring plank
flooring plaster
flooring saw
flooring stone
flooring timber
flop down
flop forging
flop-eared
flop-top
flora and fauna
floral clock
floral decoration
floral decorator
floral emblem
floral envelope
floral leaf
flores sulphuris
flori-
florid passage
florid phrase
florid style
flory counter-flory
flos ferri
flos-ferri
floss silk
floss hole
floss silk
floss thread
floss-silk
floss-silk tree
flossflower blue
flotation blanket
flotation cell
flotation gear
flotsam and jetsam
flounce off
flounce out
flounder-man
flour bag
flour barrel
flour beetle
flour bin
flour blend
flour blender
flour blending
flour bolt
flour bolter
flour bolting
flour copper
flour corn
flour grinder
flour hopper
flour maker
flour mill
flour miller
flour milling
flour mite
flour mixer
flour moth
flour packer
flour paste
flour sack
flour sifter
flour sifting
flour slick
flour weevil
flour weigher
flour worm
flourish of rhetoric
flourish of trumpets
flourishing condition
flourishing thread
flow back
flow bean
flow breccia
flow calorimeter
flow chart
flow cleavage
flow control
flow diagram
flow from
flow gate
flow in
flow moss
flow nipple
flow of air
flow of blood
flow of ideas
flow of thought
flow of time
flow of words
flow on
flow out
flow over
flow sheet
flow texture
flow together
flow valve
flow-blue
flow-control system
flow-on
flowage texture
flower arrangement
flower basket
flower bed
flower beetle
flower boat
flower bowl
flower box
flower bud
flower bug
flower child
flower concrete
flower cup
flower fence
flower fly
flower garden
flower gardening
flower girl
flower grower
flower head
flower maker
flower making
flower nymph
flower of age
flower of life
flower outbloom
flower painter
flower painting
flower paintress
flower part
flower piece
flower power
flower pride
flower scissors
flower seller
flower shop
flower show
flower spike
flower stalk
flower time
flower tree
flower-bearing
flower-bespangled
flower-besprinkled
flower-breeding
flower-crowned
flower-cup fern
flower-de-luce
flower-decked
flower-embroidered
flower-enameled
flower-enwoven
flower-faced
flower-gentle
flower-growing
flower-hung
flower-infolding
flower-inwoven
flower-kirtled
flower-of-Jove
flower-of-an-hour
flower-pecker
flower-pot
flower-scented
flower-shaped
flower-sprinkled
flower-strewn
flower-sucking
flower-sweet
flower-teeming
flowering currant
flowering dogwood
flowering flax
flowering maple
flowering moss
flowering plant
flowering quince
flowering raspberry
flowering rush
flowering spurge
flowering time
flowering tobacco
flowering wintergreen
flowering-rush family
flowers of rhetoric
flowers of speech
flowers of sulfur
flowers of zinc
flowers-of-Jove
flowery language
flowery style
flowery-kirtled
flowery-mantled
flowing locks
flowing periods
flowing stream
flowing tongue
flowing toward
flowing tresses
flowing-robed
flucti-
fluctuation-proof
flue bridge
flue cleaner
flue pipe
flue plate
flue stop
flue stopper
flue surface
flue-cure
flue-cured
flue-curing
fluent tongue
fluff your lines
fluff-gib
fluffy-haired
fluffy-minded
fluid assets
fluid clutch
fluid compression
fluid coupling
fluid die
fluid drachm
fluid dram
fluid drive
fluid dynamics
fluid extract
fluid flywheel
fluid friction
fluid mechanics
fluid motion
fluid movement
fluid operations
fluid ounce
fluid pressure
fluid-compressed
flump down
flunk out
flu-
fluoboric acid
fluophosphoric acid
fluor spar
fluor-
fluor-spar
fluorescence microscope
fluorescent lamp
fluorescent light
fluorescent lighting
fluorescent paint
fluorescent tube
fluoric acid
fluorine dating
fluorite green
fluorite violet
fluoro-
fluorocarbon plastic
fluorophosphoric acid
fluosilicic acid
flush box
flush coat
flush deck
flush girt
flush of money
flush out
flush rim
flush tank
flush with money
flush-bound
flush-cut
flush-deck vessel
flush-decked
flush-decked vessel
flush-decker
flush-head rivet
flush-headed
flush-jointed
flush-plate filter
flush-plated
flushed with anger
flushed with joy
flushed with pride
flushed with success
flushed with victory
flushing out
flushing rim
flute glass
flute shrike
flute stop
flute-douce
flute-shaped
fluting iron
flutter kick
flutter the dovecotes
flutter tonguing
flutter valve
flutter wheel
flutter-headed
fluttering the eyelids
fluvio-aolian
flux and reflux
flux de bouche
flux de mots
flux de paroles
flux density
flux function
flux gate
flux linkage
flux of time
flux of words
flux turn
flux valve
fluxing lime
fly a kite
fly about
fly agaric
fly aloft
fly anchor
fly apart
fly ash
fly at
fly back
fly ball
fly bar
fly blind
fly blister
fly block
fly book
fly by the seat of your pants
fly cap
fly casting
fly cop
fly dope
fly down
fly drill
fly finisher
fly finishing
fly fishing
fly floor
fly frame
fly front
fly fungus
fly gallery
fly governor
fly half
fly high
fly honeysuckle
fly in formation
fly in the face of
fly in the face of facts
fly in the face of reason
fly in the face of the law
fly in the ointment
fly in the teeth of
fly into a passion
fly into a rage
fly into a temper
fly into the face of danger
fly left seat
fly line
fly loft
fly low
fly mold
fly mushroom
fly net
fly nut
fly oat
fly off
fly off at a tangent
fly off the handle
fly on instruments
fly open
fly orchid
fly out
fly page
fly phalanger
fly poison
fly powder
fly press
fly rail
fly right seat
fly rod
fly rollway
fly rope
fly sheet
fly snapper
fly spray
fly spring
fly stone
fly storm warnings
fly swatter
fly tent
fly the beam
fly the coop
fly tick
fly tip
fly title
fly to
fly to the assistance of
fly to the sword
fly up
fly wagon
fly water
fly way
fly weevil
fly whisk
fly-away
fly-bane
fly-bitten
fly-blow
fly-blown
fly-boat
fly-boy
fly-by-night
fly-catcher
fly-catching
fly-catching warbler
fly-dung
fly-fish
fly-fisher
fly-fisherman
fly-fishing
fly-flap
fly-free
fly-killing
fly-leaf
fly-net
fly-past
fly-rail
fly-sheet
fly-specked
fly-spleckled
fly-strike
fly-stuck
fly-swarmed
fly-up
fly-wheel
fly-yrap
flyaway grass
flying banana
flying bathtub
flying bedspring
flying bedstead
flying boat
flying bomb
flying bond
flying boxcar
flying bridge
flying buttress
flying cadet
flying circus
flying classroom
flying colors
flying colours
flying column
flying crow's nest
flying deck
flying doctor
flying dragon
flying dutchman
flying field
flying fish
flying flame
flying fortress
flying fox
flying frog
flying gangway
flying gurnard
flying horses
flying jib
flying jib boom
flying jib guy
flying jib martingale
flying jib stay
flying jump
flying kite
flying kites
flying lemur
flying lessons
flying lizard
flying machine
flying mare
flying marmot
flying moor
flying motorcycle
flying mouse
flying nightingale
flying officer
flying phalanger
flying platform
flying range
flying ring
flying robin
flying rumor
flying sap
flying saucer
flying shear
flying skysail
flying speed
flying spot
flying squad
flying squadron
flying squirrel
flying start
flying tackle
flying tank
flying tanker
flying torpedo
flying wing
flywheel effect
flywheel efficiency
flywheel-explosion
foam at the mouth
foam extinguisher
foam glass
foam rubber
foam-beat
foam-born
foam-crested
foam-flanked
foam-flecked
foam-girt
foam-lit
foam-painted
foam-rubber mattress
foam-white
foaming at the mouth
fob chain
fob off
fob on
focal distance
focal epilepsy
focal infection
focal inflammation
focal length
focal plane
focal point
focal ratio
focal-plane shutter
focus lamp
focus of attention
focus of interest
focus on
focus the attention
focus the mind on
focus the thoughts on
focus tube
focus upon
focus your thoughts
focusing cloth
focusing glass
foe-encompassed
foe-reaped
foe-subduing
foeti-
fog alarm
fog bank
fog bell
fog belt
fog buoy
fog circle
fog drip
fog forest
fog gong
fog grass
fog gun
fog lamp
fog level
fog light
fog screen
fog signal
fog up
fog whistle
fog-bank
fog-beset
fog-blue
fog-born
fog-bred
fog-hidden
fog-logged
fog-ridden
fog-signal
foie de veau
foie gras
foist in
foist on
foist yourself upon
fold dike
fold in
fold over
fold soke
fold to the heart
fold up
fold your arms
fold-away bed
folded dipole
folded sleep
folder-up
folding bed
folding bicycle
folding camera
folding chair
folding door
folding fin
folding ladder
folding machine
folding money
folding press
folding table
folding wing
foliage brown
foliage carver
foliage green
foliage leaf
foliage plant
foliate Architect
foliated joint
foliato-
folic acid
folie a deux
folie de grandeur
folie du doute
folinic acid
folio letterheads
folio noteheads
folio post
folio verso
folk air
folk art
folk ballad
folk ballads
folk belief
folk carol
folk custom
folk dance
folk dancing
folk dialect
folk drama
folk ethics
folk etymology
folk guitarist
folk hero
folk lay
folk literature
folk medicine
folk melody
folk memory
follow in the footsteps of
follow in the footsteps of
follow in the steps of
follow in the trail of
follow in the wake of
follow in your footsteps
follow like sheep
follow on
follow on the heels of
follow out
follow peace with all men
follow protocol
follow rest
follow shot
follow strong drink
follow suit
follow the
follow the beam
follow the beaten path
follow the book
follow the crowd
follow the example of
follow the fashion
follow the hounds
follow the lead of
follow the leader
follow the party line
follow the rule
follow the rules
follow the scent of
follow the sea
follow the spoor of
follow the straight and narrow
follow the trail of
follow the trail to
follow through
follow to a conclusion
follow up
follow up an inquiry
follow up the attack
follow your nose
follow-focus shot
follow-my-leader
follow-on
follow-through
follow-up
follower plate
follower rest
follower-up
followers of Christ
following the letter
following wind
folly-bent
folly-blind
folly-drenched
folly-fallen
folly-fed
folly-maddened
folly-painting
folly-snared
folly-stricken
fond hope
fond illusion
fond of
fond of society
fond plow
fond-blind
fond-conceited
fond-hardy
fond-sparkling
fondness for society
fondue Bourguignonne
fons et origo
font name
foo yong
foo yoong
foo-foo
food allowance
food analyst
food and drink
food ball
food cabinet
food canal
food card
food cart
food chain
food chemist
food color
food container
food cycle
food faddist
food fish
food for powder
food for thought
food for worms
food freezing
food grain
food grower
food inspector
food items
food of the gods
food package
food packer
food plant
food poisoning
food preservative
food reserve
food shop
food store
food supply
food tax
food tube
food value
food waste
food web
food yolk
food-gathering
food-processing
food-producing
food-productive
food-providing
food-sick
food-size
fool around
fool around with
fool away
fool away time
fool duck
fool hay
fool hen
fool mistake
fool notion
fool plow
fool trick
fool with
fool's cap
fool's coat
fool's errand
fool's gold
fool's paradise
fool's parsley
fool's trick
fool's-cap
fool's-parsley
foot-grain per second
foot-guard
foot-hook
foot-hot
foot-lambert
foot-lame
foot-length
foot-licking
foot-loose
foot-mantle
foot-mark
foot-note
foot-pale
foot-payh
foot-pound
foot-pound-second
foot-poundal
foot-power
foot-running
foot-second
foot-slog
foot-sore
foot-tiring
foot-ton
foot-up
foot-wall
foot-weary
football field
football pools
football season
footed arrow
foothill death camas
foothill pine
foothill yellow pine
footing ale
footing beam
footing it
footing piece
footing stone
footloose and fancy-free
footman moth
footmen's gallery
footplate man
footstep bearing
footwear merchant
for FC
for God's sake
for a certainty
for a consideration
for a coon's age
for a dog's age
for a fact
for a lifetime
for a little while
for a long time
for a mere song
for a moment
for a month of Sundays
for a rainy day
for a season
for a short time
for a song
for a time
for a wonder
for ages
for ages of ages
for all me
for all practical purposes
for all that
for all the world
for all the world like
for all time
for all to see
for all you are worth
for all you know
for all your natural life
for always
for amusement
for an age
for and
for anything you knows
for aught one cares
for aught one knows
for aye
for better or for worse
for certain
for crying out loud
for dear life
for donkey's years
for each
for effect
for ever
for ever and ever
for ever so long
for evermore
for example
for fear of
for fear that
for fete
for foehn
for form's sake
for free
for fun
for good
for good and all
for good measure
for goodness sake
for heaven's sake
for hire
for instance
for it
for keeps
for kicks
for lack of something better
for lagniappe
for laughs
for life
for long
for love
for many a long day
for mercy's sake
for money
for my part
for nickels and dimes
for no other ears
for nothing
for others
for pennies
for practical purposes
for professional services
for public consumption
for real
for rent
for sale
for services rendered
for short
for show
for some reason
for sport
for sure
for that
for that cause
for that reason
for the asking
for the best
for the better
for the birds
for the cause that
for the devil of it
for the duration
for the fun of it
for the heck of it
for the hell of it
for the life of you
for the love of
for the meantime
for the moment
for the most part
for the nonce
for the people
for the period of
for the purpose of
for the reason that
for the record
for the sake of
for the term of your days
for the time
for the time being
for this cause
for this occasion
for this reason
for two
for want of
for what reason
for whatever reason
for which
for which reason
for why
for years on end
for your benefit
for your ears only
for your health
for your life
for your money
for your part
for yourself
for-
forage acre
forage cap
forage grass
forage poisoning
forage press
foraging ant
foramen magnum
foramen ovale
forasmuch as
forbid it Heaven
forbidden fruit
forbidden love
forbidding countenance
force attack
force bed
force by
force feed
force feeding
force fit
force from
force function
force in
force into a mold
force main
force majeure
force of arms
force of friction
force of gravity
force of habit
force of inertia
force of life
force of viscosity
force on
force open
force out
force out of place
force play
force polygon
force pump
force to the wall
force upon
force your hand
force your thoughts from
force your way
force-closed
force-fed
force-feed
force-feeding
force-meat
force-out
force-pump
force-put
force-ripe
forced coding
forced draft
forced landing
forced march
forced marriage
forced resignation
forced sale
forced separation
forced-labor camp
forceps-shaped
forces majeures
forces of nature
forcible feeble
forcible removal
forcible seizure
forcible shift
forcible-feeble
forcing bed
forcing bid
forcing engine
forcing fit
forcing house
forcing on
forcing out
forcing pit
forcing system
forcing-pump
fore and aft
fore bow
fore edge
fore gaff-topsail
fore jack
fore lift
fore part
fore plane
fore rent
fore rider
fore sey
fore tooth
fore topgallant sail
fore wing
fore-
fore-adapt
fore-age
fore-alleged
fore-and-aft
fore-and-aft axis
fore-and-aft rig
fore-sheet
fore-skysail
fore-skysail backstay
fore-skysail brace
fore-skysail lift
fore-skysail mast
fore-skysail shroud
fore-skysail stay
fore-skysail yard
fore-staff
fore-stage
fore-stay
fore-stick
fore-tack
fore-tooth
fore-topgallant
fore-topgallant backstay
fore-topgallant brace
fore-topgallant lift
fore-topgallant mast
fore-topgallant shroud
fore-topgallant stay
fore-topgallant studding sail
fore-topgallant yard
fore-topmast
fore-topmast backstay
fore-topmast stay
fore-topmast staysail
fore-topmast staysail stay
fore-topmast studding sail
fore-topmast-studding-sail boom
fore-topsail
fore-topsail lift
fore-topsail yard
fore-trysail gaff
fore-trysail peak halyard
fore-trysail vang
fore-uard
fore-vouched
fore-wind
fore-wit
fore-arm smash
forecastle deck
forecastle hand
forecastle hatch
forecastle head
forecastle netting
forecastle rail
forensic address
forensic chemistry
forensic jurisprudence
forensic medicine
forensic psychiatry
foreroyal backstay
foreroyal brace
foreroyal lift
foreroyal mast
foreroyal shroud
foreroyal stay
foreroyal studding sail
foreroyal yard
foreroyal-studding-sail boom
forest conservation
forest court
forest cover
forest dweller
forest fire
forest fire fighter
forest floor
forest fly
forest god
forest gods
forest green
forest gum
forest horse
forest keeper
forest land
forest mahogany
forest management
forest oak
forest officer
forest peat
forest pig
forest preserve
forest pygmy
forest ranger
forest red gum
forest reserve
forest school
forest sheriff
forest spirit
forest tent caterpillar
forest tupelo
forest type
forest warden
forest white
forest-belted
forest-born
forest-bosomed
forest-bound
forest-bred
forest-clad
forest-covered
forest-crowned
forest-dwelling
forest-felling
forest-frowning
forest-grown
forest-rustling
forever and a day
forever and aye
forfeit your good opinion
forge ahead
forge blower
forge furnace
forge furnaceman
forge hammerman
forge pressman
forge roller
forge shearer
forge slinger
forge smith
forge water
forge welding
forgery bond
forgery-proof
forget about it
forget it
forget nothing
forget the odds
forget to remember
forget your own name
forget your place
forget yourself
forget-me-not
forget-me-not blue
forgetful of self
forgetting nothing
forging press
forgive and forget
fork beam
fork cross
fork cutler
fork forger
fork grinder
fork hafter
fork lightning
fork luncheon
fork maker
fork molder
fork out
fork over
fork splitter
fork truck
fork-carving
fork-end
fork-filled
fork-head
fork-lift truck
fork-pronged
fork-ribbed
fork-shaped
fork-tail
fork-tailed
fork-tined
fork-tongued
forked chain
forked lightning
forked tongue
forked-headed
forked-tailed
forklift truck
forlorn hope
forlorn of
form a conviction
form a line
form a mental picture of
form a part of
form a series
form a unity
form a whole
form an estimate
form an opinion
form board
form class
form drag
form factor
form four
form fours
form genus
form ideas
form letter
form master
form of address
form of government
form of service
form of speech
form of worship
form quotient
form species
form squares
form stop
form the foundation of
form word
form-
form-establishing
form-fitting
form-function unit
form-giving
form-giving cause
form-relieve
form-revealing
formal agreement
formal cause
formal clothes
formal contract
formal contrast
formal dress
formal fallacy
formal language
formal logic
formal observance
formal speech
formal visit
formal written language
formatio reticularis
formation flying
formative element
formed of
former times
formic acid
formic aldehyde
formidable defenses
forming a part of
forming die
forming press
forming punch
formless darkness
formo-
formolite number
formolite reaction
forms of
forms of divination
formulated belief
formyl group
formyl radical
forsake the world
forsaking of the world
forswear speaking
forswear speech
forswear violence
forswear yourself
fort royal
forte-piano
fortes fortuna juvat
forth of
forth putting
fortification agate
fortified flour
fortified milk
fortified tunnel
fortified wine
fortunate outcome
fortune cookie
fortune hunter
fortune's child
fortune's favor
fortune's favorite
fortune's fool
fortune-hunter
fortune-hunting
fortune-tell
fortune-teller
fortune-telling
forty hours
forty machine
forty ways from Sunday
forty winks
forty-acre
forty-eight
forty-eighth
forty-eighthth
forty-eightmo
forty-eightmos
forty-fifth
forty-first
forty-five
forty-foot
forty-four
forty-fourth
forty-knot
forty-legged
forty-mile
forty-nine
forty-niner
forty-ninth
forty-one
forty-pound
forty-second
forty-seven
forty-seventh
forty-six
forty-sixth
forty-skewer
forty-spot
forty-third
forty-three
forty-ton
forty-two
forty-two
forty-year
forward bias
forward bridge
forward deck
forward delivery
forward echelon
forward exchange
forward look
forward motion
forward observer
forward pass
forward quotation
forward roll
forward transfer resistance
forward-bearing
forward-creeping
forward-flowing
forward-looking
forward-pressing
forward-turned
forwarding agent
fossil copal
fossil footprint
fossil fuel
fossil gum
fossil ivory
fossil man
fossil mud crack
fossil oil
fossil ore
fossil print
fossil resin
fossil resins
fossil sea water
fossil turquoise
fossil wax
fossil word
foster a belief
foster an idea
foster babe
foster brother
foster care
foster child
foster dam
foster daughter
foster father
foster home
foster in the mind
foster land
foster milk
foster mother
foster nurse
foster parent
foster sire
foster sister
foster son
foster the hope
foster-brother
foster-child
foster-father
foster-mother
foster-nurse
foster-sister
foster-son
foul anchor
foul ball
foul breath
foul invective
foul language
foul line
foul matter
foul odor
foul out
foul play
foul pole
foul shot
foul the anchor
foul tip
foul up
foul weather
foul wind
foul your own nest
foul-breathed
foul-browed
foul-faced
foul-handed
foul-looking
foul-minded
foul-mindedness
foul-mouthed
foul-reeking
foul-smelling
foul-spoken
foul-tasting
foul-tongued
foul-up
foul-weather suit
fouled anchor
fouled up
fouled-up
found object
found on
found wanting
foundation course
foundation cream
foundation garment
foundation plate
foundation stone
foundation stop
founded on
founded upon a rock
founder's type
founders' shares
founders' type
founding father
foundling hospital
foundry facing
foundry iron
foundry press
foundry proof
foundry scrap
foundry type
fountain grass
fountain moss
fountain of youth
fountain pen
fountain plant
fountain runner
fountain shell
fountain syringe
fountain tree
four and twenty
four bits
four corners of the earth
four flush
four freedoms
four horsemen
four hundred
four o'clock
four o'cat
four o'clock
four of a kind
four old cat
four questions
four-a-cat
four-acre
four-bagger
four-ball
four-ball match
four-bit
four-bottom plow
four-cant
four-cent
four-centered
four-centered arch
four-channel stereo system
four-color
four-color press
four-color problem
four-color process
four-colored
four-colour
four-cornered
four-coupled
four-cutter
four-cycle
four-cylinder
four-cylindered
four-day
four-deal bridge
four-deck
four-decked
four-decker
four-dimensional
four-dimensional geometry
four-dimensional space
four-dimensioned
four-dollar
four-edged
four-em space
four-eyed
four-eyed fish
four-eyed opossum
four-eyes
four-faced
four-figured
four-fingered
four-flowered
four-flush
four-flusher
four-flushing
four-foot
four-foot octave
four-foot stop
four-footed
four-footed butterfly
four-footer
four-four time
four-gallon
four-grain
four-gram
four-gun
four-hand
four-handed
four-hander
four-headed
four-horned
four-horse
four-horsed
four-hour
four-hours
four-hundred-day clock
four-in-hand
four-in-hand coach
four-in-hand etc
four-in-hand tie
four-inch
four-leaf
four-leafed
four-leaved
four-leaved grass
four-legged
four-letter
four-letter word
four-lettered
four-line
four-line octave
four-lined
four-lobed
four-masted
four-masted bark
four-masted brig
four-master
four-minute
four-minute man
four-month
four-o’clock
four-oar
four-oared
four-oclock
four-oclock family
four-ounce
four-part
four-part diaphony
four-part flask
four-part harmony
four-part time
four-percenter
four-phase
four-place
four-ply
four-post
four-posted
four-poster
four-poster bed
four-pound
four-quarter
four-rayed
four-ring
four-roomed
four-rowed
four-rowed barley
four-second
four-shilling
four-sided
four-spined
four-spot
four-spotted
four-square
four-star general
four-storied
four-story
four-stranded
four-stringed
four-striped
four-striper
four-stroke
four-stroke cycle engine
four-stroke-cycle
four-tailed bandage
four-three-two-one rule
four-time
four-times-accented
four-tined
four-toed
four-toes
four-ton
four-tooth
four-up etc
four-way
four-way cock
four-way switch
four-week
four-wheel
four-wheel drive
four-wheeled
four-wheeler
four-winged
four-yard
four-year
four-year college
four-year-old
four-year-older
fourfold block
fourfold purchase
fourfold tackle
fourier series
fourpence hapenny
fourscore and ten
fourth class
fourth dimension
fourth estate
fourth of july
fourth part
fourth person
fourth position
fourth stomach
fourth wall
fourth-born
fourth-class
fourth-class mail
fourth-dimensional
fourth-form
fourth-hand
fourth-rate
fourth-rateness
fourth-rater
fourth-year
fovea centralis
fowl cherry
fowl cholera
fowl grass
fowl leukemia
fowl leukosis
fowl meadow grass
fowl mite
fowl paralysis
fowl part
fowl pest
fowl pox
fowl spirochaetosis
fowl spirochetosis
fowl tick
fowl typhoid
fowling piece
fowling-piece
fowls of the air
fox and geese
fox bat
fox bolt
fox brush
fox docken
fox dog
fox fire
fox geranium
fox goose
fox grape
fox grass
fox hair
fox hunt
fox hunter
fox hunting
fox key
fox lathe
fox light
fox moth
fox plum
fox poison
fox rose
fox shark
fox snake
fox sparrow
fox squirrel
fox terrier
fox trot
fox wedge
fox wolf
fox-colored
fox-faced
fox-fire
fox-flove
fox-fur
fox-furred
fox-hunt
fox-hunting
fox-like
fox-nosed
fox-skinned
fox-trot
fox-trotted
fox-trotting
fox-visaged
foxglove beardtongue
foxtail cactus
foxtail grass
foxtail lily
foxtail millet
foxtail pine
foxtail saw
foxtail wedge
foxtail wedging
foxter-leaves
fps units
fra diavolo
fractional currency
fractional distillation
fractional lot
fractional note
fractional-pitch
fractocumulus cloud
fracture one
fragile health
fragmentation bomb
fragmentation grenade
fragrance control
fragrant as new-mown hay
fragrant sumac
fragrant weed
fraid-cat
fraidy-cat
frail health
frail humanity
frail sister
frail-bodied
frame aerial
frame assembler
frame bar
frame bend
frame boat
frame brazer
frame breaker
frame breaking
frame bridge
frame builder
frame building
frame cleaner
frame construction
frame cottage
frame dam
frame door
frame doubler
frame dresser
frame driller
frame dwelling
frame finisher
frame fitter
frame gate
frame house
frame line
frame lumber
frame maker
frame making
frame molding
frame of mind
frame of reference
frame plate
frame saw
frame sawyer
frame set
frame space
frame structure
frame stud
frame timber
frame trestle
frame turner
frame up
frame vise
frame wall
frame worker
frame-house
frame-made
frame-up
frame-work
frames of reference
framing chisel
framing number
framing square
framing table
fran tireur
franc-archer
franc-tireur
franchise clause
franchise tax
franco-
francs-archers
francs-tireurs
frangible booster
frangula emodin
frank almonage
frank chase
frank-almoign
frank-faced
frank-fee
frank-ferm
frank-law
frank-marriage
frank-pledge
frank-spoken
frank-tenement
frankfurt sausage
frankincense pine
franklin stove
frater house
fraternal feeling
fraternal insurance
fraternal order
fraternal society
free church
free churchman
free citizen
free city
free coinage
free companion
free company
free competition
free cost
free course
free decision
free delivery
free diver
free diving
free economy
free electron
free electron theory of metals
free energy
free enterprise
free enthalpy
free expansion
free expressionism
free expressionist
free fall
free flight
free for nothing
free for the asking
free form
free from
free gift
free giver
free gold
free goods
free gratis
free gratis for nothing
free hand
free house
free kick
free labour
free lance
free list
free liver
free living
free love
free lover
free lunch
free milling
free morpheme
free nation
free of
free of charge
free of cost
free of expense
free on board
free on rail
free pass
free person
free perspective
free play
free port
free press
free radical
free reach
free reaching
free ride
free rider
free school
free scope
free silver
free silverism
free silverite
free socage
free soi
free soil
free speech
free spirit
free state
free thought
free throw
free throw line
free ticket
free time
free trade
free trade area
free trader
free translation
free up
free variable
free variation
free verse
free vote
free will
free with your money
free world
free yourself
free yourself from
free zone
free-acting
free-air ionization chamber
free-armed
free-associate
free-associated
free-associating
free-banking
free-bestowed
free-blown
free-board
free-boot
free-bored
free-born
free-bred
free-burning
free-denizen
free-enterprise
free-enterprise economy
free-enterprise system
free-falling
free-floating
free-floating anxiety
free-flowering
free-flowing
free-footed
free-for-all
free-form
free-going
free-grown
free-hand
free-handed
free-handedly
free-handedness
free-hearted
free-lance
free-lance worker
free-lance writer
free-lancer
free-liver
free-living
free-lovism
free-machining
free-minded
free-mindedly
free-mindedness
free-mouthed
free-moving
frequency modulation
frequency multiplier
frequency polygon
frequency recorder
frequency relay
frequency spectrum
frequency swing
frequency width
frequency-modulated
frequent as a customer
fresco painting
fresco secco
fresh air
fresh as April
fresh as a daisy
fresh as a rose
fresh as the morning dew
fresh breeze
fresh foods
fresh gale
fresh start
fresh up
fresh water
fresh wind
fresh-baked
fresh-boiled
fresh-caught
fresh-cleaned
fresh-coined
fresh-colored
fresh-complexioned
fresh-cooked
fresh-cropped
fresh-cut
fresh-drawn
fresh-faced
fresh-fallen
fresh-killed
fresh-laid
fresh-leaved
fresh-looking
fresh-made
fresh-painted
fresh-picked
fresh-run
fresh-slaughtered
fresh-washed
fresh-water
fresh-water drum
fresh-water nymph
fresh-water sailor
fresh-watered
drench the air
drench up
drench water
freshman week
freshman year
freshwater drum
freshwater lake
freshwater stay
fresno scraper
fret and fume
fret at
fret saw
fret-sawing
friar rush
friar skate
friar's balsam
friar's chair
friar's lantern
fribble away
friction ball
friction band
friction belt
friction block
friction board
friction brake
friction breccia
friction clamp
friction clutch
friction composition
friction cone
friction disk
friction drill
friction drive
friction electricity
friction factor
friction fremitus
friction fuse
friction gear
friction gearing
friction glazing
friction head
friction horsepower
friction layer
friction loss
friction machine
friction match
friction pile
friction powder
friction primer
friction pulley
friction ring
friction roller
friction rub
friction saw
friction slip
friction socket
friction sound
friction tape
friction test
friction top
friction tube
friction washer
friction wheel
friction-head
friction-saw
friction-sawed
friction-sawing
friction-sawn
friction-tight
frictional electricity
frictional resistance
frictional rustling
fried eggs
fried rice
friend at court
friend in court
friend in need
friend indeed
friend of the court
friend of your bosom
friendly chat
friendly relations
friendly society
friendly talk
friendly with
friends with
frieze board
frieze coat
frieze rail
frieze-coated
frigate bird
frigate mackerel
frigate pelican
from first to last
from force of habit
from habit
from hand to hand
from hand to mouth
from head to foot
from hell to breakfast
from here in
from here on
from here out
from here to eternity
from here to the back of beyond
from his own mouth
from home
from hour to hour
from information received
from interested motives
from me to you
from memory
from necessity
from notice given
from now on
from now on in
from now till doomsday
from on high
from out in left field
from pillar to post
from pole to pole
from rags to riches
from scratch
from selfish motives
from side to side
from soup to nuts
from stem to stern
from that cause
from that time
from the beginning
from the bottom of your heart
from the cradle to the grave
from the first
from the foundations
from the four winds
from the ground up
from the heart
from the horse's mouth
from the housetops
from the lips of
from the rolls
from the sticks
from the womb to the tomb
from the word 'go'
from then on
from this moment on
from this point
from this time
from this time forward
from time immemorial
from time out of mind
from time to time
from top to bottom
from top to toe
from what cause
from what you can gather
from your angle
from your book
from your heart
from your standpoint
from your viewpoint
fromage a la pie
fromage blanc
front a front
front bench
front court
front crawl
front door
front elevation
front foot
front for
front line
front man
front matter
front money
front of house
front office
front office
front on
front page
front position
front rank
front room
front runner
front scene
front view
front window
front-connected
front-fanged
front-focus
front-focused
front-foot
front-page
front-paged
front-paging
front-porch campaign
front-rank
front-ranker
front-runner
front-wheel
frontal assault
frontal attack
frontal bone
frontal convolution
frontal cyclone
frontal gyrus
frontal lobe
frontier post
frontiers of knowledge
fronto-
frost bearer
frost blow
frost feathers
frost flowers
frost grape
frost gray
frost heave
frost heaving
frost insurance
frost lamp
frost line
frost mist
frost over
frost plant
frost point
frost ring
frost signal
frost smoke
frost snipe
frost snow
frost valve
frost-beaded
frost-bit
frost-bite
frost-bitten
frost-blite
frost-bound
frost-burnt
frost-chequered
frost-concocted
frost-congealed
frost-covered
frost-crack
frost-fettered
frost-firmed
frost-free
frost-hardy
frost-hoar
frost-kibed
frost-nip
frost-nipped
frost-pure
frost-rent
frost-ridge
frost-riven
frost-tempered
frost-work
frosted glass
frosted heart
frosted lens
frosted shake
frostweed aster
frosty green
frosty mildew
frosty-face
frosty-faced
frosty-mannered
frosty-natured
frosty-spirited
frosty-whiskered
froth at the mouth
froth flotation
froth fly
froth hopper
froth insect
froth spit
froth worm
froth-becurled
froth-born
froth-clad
froth-faced
froth-foamy
frothing at the mouth
frou-frou
frown at
frown down
frown upon
frowned-upon behavior
frowns of fortune
frowzy-headed
frozen assets
frozen custard
frozen daiquiri
frozen dessert
frozen fog
frozen food
frozen foods
frozen in
frozen music
frozen out
frozen pudding
frozen solid
frozen to death
frozen water
frozen-food locker
fructose intolerance
frugal to excess
fruit acid
fruit bar
fruit bark beetle
fruit barrel
fruit basket
fruit bat
fruit bearing
fruit belt
fruit blight
fruit blossom
fruit body
fruit bowl
fruit bud
fruit bug
fruit bush
fruit buyer
fruit cake
fruit can
fruit cane
fruit canner
fruit canning
fruit chafer
fruit cocktail
fruit compote
fruit crate
fruit crow
fruit culture
fruit cup
fruit dealer
fruit dish
fruit dot
fruit eater
fruit envelope
fruit ether
fruit evaporator
fruit farm
fruit farmer
fruit farming
fruit flavor
fruit fly
fruit garden
fruit grader
fruit jar
fruit jelly
fruit juice
fruit knife
fruit loft
fruit machine
fruit package
fruit packer
fruit packing
fruit peddler
fruit peel
fruit picker
fruit picking
fruit pigeon
fruit pit
fruit pitter
fruit preservative
fruit preserver
fruit pudding
fruit raiser
fruit raising
fruit ranch
fruit rot
fruit salad
fruit seller
fruit set
fruit shipper
fruit shop
fruit show
fruit sirup
fruit slicer
fruit sorter
fruit soup
fruit spot
fruit sprayer
fruit spur
fruit stall
fruit stand
fruit strainer
fruit sugar
fruit tart
fruit tree
fruit vendor
fruit vinegar
fruit wood
fruit-bringing
fruit-candying
fruit-drying
fruit-eating
fruit-eating bird
fruit-evaporating
fruit-grower
fruit-growing
fruit-paring
fruit-producing
fruit-tree bark beetle
fruit-tree leaf roller
fruiting body
fruits and vegetables
frustum of a pyramid
fry cook
fry-cooker
fry-pan
frying pan
frying-pan
ft-lb
ft-pdl
fu-yang
fuchsia purple
fuchsia red
fuchsia tree
fuchsia-flowered
fuck about
fuck up
fuddle-brained
fuddling cup
fuddling glass
fuddy-duddies
fuddy-duddiness
fuddy-duddy
fudge edge
fudge in
fudge together
fudge up
fudge wheel
fuel additive
fuel cell
fuel dope
fuel element
fuel engineer
fuel engineering
fuel filter
fuel injection
fuel injector
fuel oil
fuel quantity indicator
fuel ship
fuel up
fuel-flow meter
fugae warrant
fugie warrant
fugue form
fugue state
fulfill a short sale
fulfill your duty
fulfill your military obligation
fulfill your role
fulgurant pain
full age
full and by
full authority
full beard
full binding
full blast
full blood
full bloom
full board
full bottom
full bridle
full circle
full color
full consent
full cousin
full denture
full development
full dress
full feather
full fig
full flavor
full force
full frame
full gainer
full gallop
full growth
full hand
full house
full length
full linear group
full load
full lot
full many
full many a time
full many a time and oft
full meal
full measure
full moon
full mouthed
full name
full nelson
full of
full of Dutch courage
full of beans
full of business
full of enthusiasm
full of fight
full of go
full of hate
full of hatred
full of holes
full of hope
full of incident
full of integrity
full of life
full of life and vigor
full of meaning
full of mischief
full of pep
full of piss and vinegar
full of point
full of promise
full of remorse
full of risk
full of sound and fury
full of substance
full of sweet days and roses
full of yourself
full particulars
full permission
full pitch
full power
full powered
full pratie
full professor
full purse
full radiator
full rhyme
full sail
full scope
full score
full sentence
full shot
full size
full skirt
full speed
full speed ahead
full speed astern
full stop
full sun
full swing
full term
full tide
full tilt
full time
full to bursting
full toss
full trailer
full twist
full vowel
full wine
full word
full-accomplished
full-acorned
full-adjusted
full-annealing
full-armed
full-assembled
full-assured
full-attended
full-banked
full-beaming
full-bearded
full-bearing
full-bellied
full-blood
full-blooded
full-bloodedness
full-bloomed
full-blossomed
full-blowed
full-boded
full-bore
full-born
full-bosomed
full-bottom
full-bottomed
full-bound
full-bowed
full-brained
full-breasted
full-brimmed
full-buckramed
full-built
full-busted
full-buttocked
full-cell
full-celled
full-centered
full-charge
full-charged
full-cheeked
full-chested
full-chilled
full-clustered
full-colored
full-crammed
full-cream
full-crew
full-crown
full-cut
full-depth
full-diamond
full-diesel
full-digested
full-distended
full-draught
full-drawn
full-dress
full-dress suit
full-dress uniform
full-dressed
full-dug
full-eared
full-edged
full-exerted
full-extended
full-eyed
full-faced
full-fashioned
full-fashioned stockings
full-fatted
full-feathered
full-fed
full-feed
full-feeding
full-felled
full-fidelity speaker
full-figured
full-finished
full-fired
full-flanked
full-flavored
full-fledged
full-fleshed
full-floating
full-flocked
full-flowering
full-flowing
full-foliaged
full-form
full-formed
full-fortuned
full-fraught
full-freight
full-freighted
full-frontal
full-fronted
full-fruitied
full-glowing
full-gorged
full-grown
full-haired
full-hand
full-handed
full-happinessed
full-hard
full-haunched
full-headed
full-hearted
full-roed
full-run
full-sailed
full-scale
full-scantling vessel
full-sensed
full-sharer
full-shouldered
full-shroud
full-size
full-sized
full-skirted
full-souled
full-speed
full-sphered
full-spread
full-stage
full-statured
full-stomached
full-strained
full-streamed
full-strength
full-stuffed
full-summed
full-swelling
full-term
full-throated
full-tide
full-time
full-time worker
full-timed
full-timer
full-to-full
full-toned
full-top
full-trimmed
full-tuned
full-turn stair
full-tushed
full-udderred
full-value
full-voiced
full-volumed
full-wave
full-wave rectification
full-wave rectifier
full-wave rectifier tube
full-way
full-weight
full-weighted
full-whiskered
full-winged
full-witted
fuller's earth
fuller's teasel
fullering tool
fulling mill
fulling stock
fullness of time
fully developed
fully fashioned
fully fledged
fully realized
fulminate against
fulminating compound
fulminating mercury
fulminating powder
fulminic acid
fulvous tree duck
fumaric acid
fumble-fist
fume chamber
fume cupboard
fumed oak
fumes of fancy
fuming nitric acid
fuming sulfuric acid
fuming sulphuric acid
fumitory family
fun and games
fun fair
fun house
fun-fair
fun-filled
fun-loving
fun-seeking
function as
function class
function shift
function space
function word
functional analysis
functional calculus
functional design
functional disease
functional furniture
functional group
functional housing
functional illiteracy
functional illiterate
functional load
functional nervous disorder
functional psychology
functional psychosis
functional representation
functional shift
functional yield
functionally illiterate
functions of
fund-raising dinner
fundamental bass
fundamental colors
fundamental frequency
fundamental idea
fundamental law
fundamental note
fundamental particle
fundamental sequence
fundamental theorem of algebra
fundamental theorem of calculus
fundamental tone
fundamental unit
funded debt
funding system
funeral car
funeral chapel
funeral church
funeral coach
funeral customs
funeral director
funeral establishment
funeral home
funeral march
funeral oration
funeral parlor
funeral parlour
funeral pile
funeral procession
funeral pyre
funeral ring
funeral rites
funeral sermon
funeral service
funeral song
funeral urn
funeral vessel
funerary customs
funerary urn
funerary vessel
fungi-
fungiform papillae
fungo bat
fungus body
fungus bug
fungus disease
fungus gall
fungus gnat
fungus stone
fungus tinder
fungus-covered
fungus-digesting
fungus-proof
funicular railway
funk hole
funk out
funky chicken
funnel breast
funnel chest
funnel cloud
funnel maker
funnel setter
funnel tube
funnel twister
funnel-breasted
funnel-chested
funnel-fashioned
funnel-formed
funnel-necked
funnel-shaped
funnel-web
funny bone
funny business
funny car
funny farm
funny feeling
funny paper
funny story
funny thing
fur bearer
fur beater
fur blocker
fur blower
fur breeder
fur brigade
fur brusher
fur buyer
fur coat
fur farm
fur farmer
fur farming
fur lining
fur salon
fur seal
fur tanner
fur trader
fur trapper
fur trapping
fur trimming
fur-bearing
fur-capped
fur-clad
fur-coated
fur-collared
fur-cuffed
fur-gowned
fur-lined
fur-lined coat
fur-touched
fur-trimmed
fur-trimmed coat
furbish up
furious rabies
furious rage
furious-faced
furl in a body
furl in the bunt
furnace bricklayer
furnace builder
furnace cadmium
furnace calciner
furnace charger
furnace charging
furnace engineer
furnace erector
furnace feeder
furnace fireman
furnace heating
furnace keeper
furnace liner
furnace lining
furnace maker
furnace mounter
furnace oil
furnace regulator
furnace repairer
furnace stoker
furnace tender
furnace tenter
furnace watcher
furnish accommodations
furnish evidence
furnish support
furniture arrangement
furniture broker
furniture carving
furniture designer
furniture enameler
furniture finisher
furniture fitter
furniture japanner
furniture maker
furniture mover
furniture packer
furniture painter
furniture polish
furniture polisher
furniture porter
furniture repairer
furniture store
furniture turning
furniture van
furor epilepticus
furor loquendi
furor uterinus
furr-ahin
furring brick
furring strip
furrow drain
furrow drainage
furrow draining
furrow irrigation
furrow pan
furrow weed
furrow-cloven
furrow-faced
furrow-fronted
furry creatures
further education
further look
further yourself
fury of desire
fury of lust
fury-driven
fury-haunted
fury-moving
furze lark
furze wren
furze-clad
fusarium wilt
fusco-
fusco-ferruginous
fusco-piceous
fusco-testaceous
fuse block
fuse box
fuse gauge
fuse link
fuse metal
fused quartz
fused silica
fusel oil
fusi-
fusible alloy
fusible metal
fusing disk
fusion bomb
fusion point
fusion reaction
fusion reactor
fusion welding
fuss and feathers
fuss at
fuss up
fuss-budget
fuss-budgety
fusty-framed
fusty-looking
fusty-rusty
futtock band
futtock chain
futtock hoop
futtock plate
futtock shroud
futtock staff
futtock stave
future event
gaff sail
gaff topsail
gaff-headed sail
gaff-rigged
gaff-topsail
gaff-topsail catfish
gaff-topsail pompano
gag law
gag on
gag order
gag press
gag rein
gag resolution
gag rule
gag runner
gag swivel
gag writer
gag-bit
gag-check
gag-reined
gag-tooth
gaga over
gage green
gage of battle
gain a footing
gain a good knowledge of
gain a hearing
gain a hold upon
gain a thorough knowledge of
gain admittance
gain altitude
gain by
gain command of
gain entree
gain ground
gain influence
gain knowledge
gain knowledge of
gain on
gain over
gain recognition
gain sharing
gain strength
gain the ascendancy
gain the confidence of
gain the day
gain the friendship of
gain the upper hand
gain the whip hand
gain time
gain to windward of
gain understanding of
gain upon
gain weight
gain your end
gain your ends
gain your liberty
gain-
gain-giving
gaining altitude
gaining head
gaining machine
gaining twist
gaited horse
gaiter tree
gaiter-in
gal Friday
gala affair
gala day
galact-
galactic circle
galactic cluster
galactic coordinates
galactic distance
galactic equator
galactic latitude
galactic longitude
galactic nebula
galactic noise
galactic plane
galactic pole
galactic poles
galactic space
galacto-
galam butter
galanga root
galanty show
gale day
gale warning
gale-driven
galena glaze
gales of laughter
galimeta wood
gall and wormwood
gall bag
gall bladder
gall cyst
gall duct
gall fig
gall gnat
gall midge
gall mite
gall oak
gall passage
gall pipe
gall sickness
gall sickness bush
gall wasp
gall wind
gall-fly
gall-less
gall-like
gall-nut
gall-stone
galla ox
gallant soldier
gallantry under fire
gallery forest
gallery gods
gallery organ
gallery road
galleta grass
galley chase
galley foist
galley halfpenny
galley press
galley proof
galley punt
galley slave
galley slice
galley slug
galley stove
galley worm
galley-fashion
galley-man
galley-slave
galley-tile
galley-west
gallic acid
gallo-
gallo-tannate
gallo-tannic
gallop rhythm
galloper gun
galloping dandruff
galloping dominoes
gallow pulley
gallow tree
gallows balk
gallows bird
gallows bitts
gallows frame
gallows humor
gallows humour
gallows tree
gallows-bird
gallows-grass
gallows-tree
gally tile
galois theory
galvanic battery
galvanic cell
galvanic circle
galvanic circuit
galvanic couple
galvanic current
galvanic electricity
galvanic pile
galvanic shock
galvanic skin response
galvanized iron
galvano-
gam-
gama grass
gamba bass
gamba goose
gamba stop
gamben bass
gamble away
gamble on
gamble with
gambling chance
gambling debt
gambling den
gambling device
gambling hall
gambling hell
gambling house
gambling odds
gambling table
gambling wheel
gambo goose
gambo hemp
gamboe yellow
gambrel roof
gambrel stick
gambrel-roofed
game act
game bag
game beast
game bird
game cart
game chips
game debt
game dog
game farmer
game fish
game fowl
game hawk
game hunter
game hunting
game law
game laws
game loser
game of chance
game of skill
game pie
game plan
game point
game preserve
game refuge
game reserve
game room
game sanctuary
game season
game shooting
game theory
game to the backbone
game to the end
game to the last
game warden
game-cock
game-destroying
game-fowl
game-law
gamelan orchestra
games all
games master
games mistress
games of chance
games theory
games-player
gamet-
gameto-
gaming contract
gaming house
gaming room
gaming table
gaming-proof
gamma acid
gamma decay
gamma distribution
gamma function
gamma globulin
gamma infinity
gamma iron
gamma moth
gamma nasal
gamma radiation
gamma radiator
gamma ray
gamma ray counter
gamma rays
gammon iron
gammon-faced
gammon-visaged
gamo-
gander month
gander pull
gandy dancer
gang along
gang around
gang cask
gang center
gang cultivator
gang drill
gang edger
gang hook
gang mill
gang plough
gang plow
gang press
gang punch
gang saw
gang sawyer
gang switch
gang tool
gang tooth
gang up
gang up on
gang up with
gang war
gang warfare
gang week
gang-board
gang-cask
gang-days
gang-flower
gang-plank
gang-week
ganging plea
gangle-shanked
gangli-
ganglion cell
ganglion crest
ganglionic blocking agent
gangway board
gangway ladder
gannet paper
gantry crane
gantry scaffold
gaol delivery
gap lathe
gap-frame press
gap-toothed
gape for
gape-gaze
gape-seed
gaping chasm
gaping depths
gapped scale
gar pike
gar-pike
zarab tree
garage sale
garam masala
garand rifle
garb willow
garbage barrel
garbage burner
garbage can
garbage cart
garbage collector
garbage conveyer
garbage destructor
garbage digestor
garbage drier
garbage dump
garbage grease
garbage incinerator
garbage man
garbage pail
garbage plant
garbage reducer
garbage tank
garbage tankage
garbage truck
garbage wagon
garble accounts
garboard plank
garboard strake
garbutt rod
garde du corps
garde-collet
garde-du-corps
garde-feu
garde-feux
garde-manger
garde-reins
garden apartment
garden balm
garden balsam
garden bond
garden bugloss
garden burnet
garden buttercup
garden camomile
garden cart
garden catchfly
garden celandine
garden centre
garden chafer
garden chair
garden cicely
garden city
garden columbine
garden cress
garden culture
garden cypress
garden egg
garden flea
garden flea hopper
garden fly honeysuckle
garden frame
garden garth

garden geranium

garden ginger

garden glass

garden heliotrope

garden hoe

garden hose

garden house

garden huckleberry

garden hyssop

garden lemon

garden mint

garden mold

garden nasturtium

garden nightshade

garden of the Gods

garden of the Hesperides

garden orach

garden orpine

garden party

garden path

garden patience

garden pepper

garden pepper cress

garden peppergrass

garden persicary

garden phlox

garden pink

garden plague

garden plow

garden poppy

garden portulaca

garden purslane

garden rocket

garden roller

garden sage

garden sauce

garden sculpture

garden seat

garden snail

garden sorrel

garden spade

garden speedwell

garden spider

garden spot

garden spurge

garden suburb

garden syringa
garden tickseed
garden trowel
garden truck
garden valerian
garden variety
garden verbena
garden violet
garden wall
garden warbler
garden webworm
garden white
garden-gate
garden-house
garden-seated
garden-variety
garden-wall bond
gardener bird
gardenwall bond
gardes du corps
gardez la foi
gare-fowl
garget plant
garget root
garland chrysanthemum
garland crab
garland crab apple
garland flower
garland larkspur
garlic bread
garlic butter
garlic germander
garlic mustard
garlic oil
garlic pear
garlic powder
garlic sage
garlic salt
garlic shrub
garlic tree
garment center
garment maker
garment making
garment parts
garment presser
garner of facts and fancies
garner up
garnet brown
garnet hinge
gas propulsion
gas range
gas refrigeration
gas refrigerator
gas ring
gas sand
gas separator
gas shaft
gas shell
gas spectrum
gas spurts
gas station
gas stove
gas tank
gas tap
gas tar
gas thermometer
gas thread
gas trap
gas tube
gas turbine
gas turbine engine
gas turbine jet engine
gas up
gas vent
gas warfare
gas washer
gas water
gas welder
gas welding
gas well
gas zone
gas-absorbing
gas-bag
gas-burning
gas-charged
gas-check
gas-cooled reactor
gas-delivering
gas-discharge lamp
gas-driven
gas-electric
gas-filled
gas-filled tube
gas-fired
gas-fitter
gas-fitting
gas-heat
gas-heated
gas-laden
gas-lampy
gas-light
gas-liquid chromatography
gas-operated
gas-oxygen
gas-plant
gas-producing
gas-propelled
gas-resisting
gas-retort
gas-shaft hood
gas-testing
gaseous envelope
gaseous environment
gaseous medium
gaseous nebula
gaseous state
gash vein
gash-gabbit
gaslight paper
gasoline engine
gasoline gas
gasoline lantern
gasoline locomotive
gasoline propulsion
gasoline shovel
gasoline stove
gasoline tax
gasoline truck
gasoline-electric
gasoline-propelled
gaster-
gastr-
gastraea theory
gastric antacid
gastric digestion
gastric glands
gastric juice
gastric lavage
gastric ulcer
gastro-
gastro-omental
gastrocolic omentum
gastrohepatic omentum
gastrointestinal disease
gastrointestinal tract
gat-toothed
gate bill
gate channel
gate hinge
gate leg
gate money
gate net
gate pin
gate receipts
gate road
gate shear
gate shears
gate table
gate tower
gate valve
gate wheel
gate, the
gate-crash
gate-crasher
gate-keeper
gate-leg
gate-leg table
gate-legged
gate-legged table
gate-netting
gate-post
gateleg table
gatelegged table
gather around
gather courage
gather flesh
gather head
gather in
gather into barns
gather knowledge
gather learning
gather materials
gather to yourself
gather together
gather up
gather way
gather your thoughts
gathered to his fathers
gathering clouds
gathering coal
gathering evidence
gathering hoop
gathering iron
gathering locomotive
gathering machine
gathering of the clouds
gathering pallet
gathering peat
gathering place
gathering reel
gathering ring
gathering rod
gathering shot
gathering table
gatling gun
gaub line
gaude lake
gaudy-day
gaudy-green
gaufre iron
gauge block
gauge board
gauge cock
gauge concussion
gauge die
gauge door
gauge glass
gauge increment
gauge knife
gauge lath
gauge lathe
gauge line
gauge notch
gauge pile
gauge pin
gauge plate
gauge point
gauge saw
gauge stick
gauge stuff
gauge tolerance
gauge weir
gauge wheel
gauged pile
gauging plaster
gaultheria oil
gaunt-bellied
gauze ring
gauze tree
gauze weave
gauze-winged
gavel bread
gavel corn
gavel earth
gavel swine
gay as a lark
gay dance
gay deceiver
gay dog
gay liberation
gay-beseen
gay-chirping
gay-colored
gay-feather
gay-flowered
gay-glancing
gay-green
gay-hued
gay-humored
gay-looking
gay-motleyed
gay-painted
gay-seeming
gay-smiling
gay-spent
gay-spotted
gay-tailed
gay-throned
gaze at
gaze open-mouthed
gaze upon
gaze-hound
gazelle brown
gazelle hound
gazelle-boy
gazelle-eyed
gazer-on
gazetted officer
gazing ball
gazing-stock
ge-
gear box
gear brasher
gear case
gear cutter
gear down
gear fitter
gear forger
gear hobber
gear lever
gear maker
gear miller
gear oiler
gear pump
gear ratio
gear roller
gear shaper
gear shifter
gear to
gear train
gear up
gear wheel
gear-cutting
gear-driven
gear-operated
gear-wheel pump
gereed-head lathe
gearing chain
gearless traction
gee ho
gee pole
gee string
gee up
gee up!
gee whillikins
gee whiz
gee whizz
gee-gee
gee-haw
gee-throw
gee-up
gefillte fish
gefilte fish
gefullte fish
gefulte fish
gegen-ion
gehockte leber
geigen principal
geiger counter
ggeiger tree
ggeiger-muller tube
geil fine
geisha girl
gel filtration
gel mineral
gelada baboon
gelatin dynamite
gene flow
gene frequency
gene mutation
gene pool
gene-string
genealogical tree
general acclamation
general adaptation syndrome
general agent
general agreement
general anaesthetic
general anesthetic
general assembly
general aviation
general belief
general confession
general consent
general court
general court-martial
general delivery
general demurrer
general dentistry
general dictionary
general discharge
general education
general election
general expenses
general headquarters
general hospital
general idea
general information
general knowledge
general lien
general linguistics
general medicine
general mortgage bond
general obligation bond
general of the air force
general of the armies
general of the army
general officer
general order
general orders
general paralysis
general paralysis of the insane
general paresis
general partner
general partnership
general post office
general practice
general practitioner
general precession
general principle
general prior
general public
general reconnaissance
general reference map
general rule
general run
general semantics
general servant
general sessions
general solution
general staff
general store
general strike
general studies
general surgery
general theory of relativity
general truth
general uprising
general voice
general war
general will
general-duty nurse
general-purpose
generalized coordinates
generalized other
generalized proposition
generally accepted
generally admitted
generally capable
generally speaking
generate electricity
generating station
generating tone
generation gap
generation of man
generative cell
generative grammar
generative semantics
generator gas
generator unit
generic name
generic resemblance
generous-hearted
gentle sleep
gentle slope
gentle wind
gentle-born
gentle-bred
gentle-browed
gentle-eyed
gentle-handed
gentle-handedly
gentle-handedness
gentle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturedly
gentle-naturedness
gentle-spoken
gentle-spokenly
gentle-spokenness
gentle-voiced
gentle-voicedly
gentle-voicedness
gentleman farmer
gentleman friend
gentleman of fortune
gentleman of leisure
gentleman of the press
gentleman of the road
gentleman's agreement
gentleman's gentleman
gentleman's lounge
gentleman's roo
gentleman-adventurer
gentleman-agent
gentleman-at-arms
gentleman-beggar
gentleman-cadet
gentleman-commoner
gentleman-covenanter
gentleman-dependent
gentleman-digger
gentleman-farmer
gentleman-jailer
gentleman-jockey
gentleman-lackey
gentleman-lodger
gentleman-murderer
gentleman-pensioner
gentleman-porter
gentleman-priest
gentleman-ranker
gentleman-recusant
gentleman-rider
gentleman-scholar
gentleman-sewer
gentleman-tradesman
gentleman-usher
gentleman-vagabond
gentleman-volunteer
gentleman-waiter
gentlemen's agreement
gentlemen-at-arms
gentlemen-commoners
gentlemen-farmers
gentlemen-pensioners
genoot penguin
gen valgum
genuine object
genus Homo
deo probe
deo-
deo-navigation
decentric longitude
decentric parallax
desic dome
desic geometry
desic line
desic engineer
desic engineering
desic longitude
desic satellite
desic survey
desic surveying
dographic determinism
dographic environment
dographic longitude
dographic range
dographical determinism
dographical dictionary
dographical mile
dographically limited
doid-spheroid
geoid-spheroid balance
geologic time
gеологическая химия
gеологический словарь
геологический инженер
геологическое проведение
gеологические временные периоды
геометрическая фигура
геометрическое изомеризм
геометрическое среднее
геометрический темп
геометрическая прогрессия
геометрическое соотношение
геометрический ряд
геометрическая прогрессия
геометрическая ступень
геометрический ступень
геометрический латунь
геометрический оптический
геометрический темп
геометрическая прогрессия
геометрическая лестница
геофизический спутник
георгий хвойной
геострофическая ветер
геотектоническая геология
гераниум лазурь
гераниум олий
гераниум розовый
геранатный синий
геранатный цвет
геранатная язва
геранатный дезинфицирующий
геранатный яд
геранатный диск
геранатная железная
геранатный насос
геранатная язва
геранатная язва
геранатная язва
геранатный пор
геранатная язва
геранатный сток
геранатная теория
germ track
germ tube
germ warfare
germ-forming
german baptist brethren
german cotillion
german measles
german shepherd
german silver
germander chickweed
germander sage
germander speedwell
germanium crystal triode
germanium oxide
germanium triode
germano-
germicidal lamp
germinal area
germinal disc
germinal disk
germinal imagination
germinal vesicle
germinate from
geront-
geronto-
gerrymandered district
gerund grinder
gerund grindery
gerund grinding
gerund phrase
ges-warp
gestalt psychology
gestalt therapy
gestatorial chair
gesture calligraphist
gesture calligraphy
gesture language
gesture painting
get a bang out of
get a bead on
get a boot out of
get a break
get a bun on
get a charge out of
get a corner on
get a cropper
get a fix
get a foothold
get a footing
get a glimpse of
get a good pennyworth
get a head start
get a hold on
get a hustle on
get a kick out of
get a leg up on
get a lift out of
get a load of
get a loan
get a move on
get a navigational fix
get a noseful of
get a purchase
get a reaction
get a reading
get a response
get a rise out of
get a sense
get a sounding
get a stranglehold on
get a whiff of
get a wiggle on
get a wrong impression
get about
get abroad
get acquainted
get acquire
get across
get afloat
get ahead
get ahead of
get all balled up
get all bollixed up
get all in a lather
get all snarled up
get all tangled up
get all wound up
get along
get along in years
get along on
get along with
get along with you
get along without
get an agent
get an earful
get an eyeful of
get an impression
get an income
get anywhere
get around
get at
get at the ear of
get away
get away from
get away with
get away with it
get away with murder
get back
get back at
get back in shape
get back to earth
get before
get behind
get better
get bogged down
get busy
get by
get by heart
get by hook or by crook
get by on
get by osmosis
get by rote
get chummy with
get clear of
get cold feet
get cozy with
get cracking
get cutting
get done
get down
get down cold
get down from your high horse
get down on your hunkers
get down on your knees
get down on your marrowbones
get down pat
get down to brass tacks
get down to business
get down to cases
get down to nuts and bolts
get drunk
get even
get even with
get excited
get excited about
get exposure
get for free
get for your pains
get free
get free of
get fresh
get from
get funny
get going
get heads together
get hep to
get hers
get high
get high on
get his
get hitched
get hold of
get hold of an idea
get hold of yourself
get home free
get hot under the collar
get huffy
get hung up
get in
get in a bind
get in a box
get in a hole
get in a jam
get in a mess
get in a pincers
get in a rut
get in a word edgewise
get in back of
get in behind
get in connection with
get in contact with
get in formation
get in front of
get in good with
get in hot water
get in line
get in on the ground floor
get in the act
get in the family way
get in the good graces of
get in the harvest
get in the soup
get in the swim
get in there
get in touch with
get in with
get in wrong
get in your hair
get in your own way
get income
get into
get into a dither
get into a pucker
get into a scrape
get into a stew
get into a swivet
get into a tizzy
get into debt
get into favor
get into harness
get into line
get into mischief
get into the way of
get into trouble
get into your clutches
get into your grasp
get into your head
get into your hold
get into your possession
get into your thick head
get it
get it coming and going
get it in the neck
get it into your head
get it off your chest
get it off your mind
get it out of your system
get it out on
get it over
get it over with
get justice
get killed
get knowledge
get left
get letter-perfect
get leverage
get loose
get lost
get mad
get married
get miffed
get mired
get mired down
get moving
get next to
get next to someone
get no better fast
get no place fast
get nowhere
get off
get off a joke
get off cheap
get off on the right
get off scot-free
get off the ground
get off the subject
get off the track
get off to a good start
get off your back
get on
get on credit
get on film
get on good terms with
get on in the world
get on in years
get on out
get on swimmingly
get on the ball
get on the bandwagon
get on the cuff
get on the good side of
get on the in with
get on the job
get on the right side of
get on the wagon
get on the water wagon
get on tick
get on to
get on top
get on trust
get on well
get on well with
get on with
get on your high horse
get on your nerves
get one wrong
get onto
get organized
get the air
get the ax
get the best of
get the better of
get the breaks
get the control of
get the drift
get the drop on
get the ear of
get the edge on
get the facts
get the floor
get the gate
get the hang of
get the hell out
get the idea
get the impression
get the jump on
get the knack of
get the lay of the land
get the lead out
got the lead out of your ass
get the lie of the land
get the mastery of
got the meaning of
get the picture
got the power into your hands
got the show on the road
got the start
got the upper hand
got the works
got the worst of it
got there
got things into proportion
got through
got through to
got through with
got through your head
got through your thick head
got tired
got to
got to be
got to do
got to first base
got to know one another
got to the bottom of
got to the core
got to the essence
get to the nub
get to your feet
get together
get together with
get too big for your breeches
get top billing
get under way
get under your skin
get up
get up and go
get up early
get up in
get up late
get up nerve
get up on
get up steam
get used to
get warm
get well
get well out of
get what is coming to one
get wind of
get wind up
get wise to
get with child
get with it
get with young
get worse
get wrong
get you down
get you gone
get your Irish up
get your ass in a bind
get your ass in gear
get your back up
get your bearings
get your blood up
get your comeuppance
get your credentials
get your dander up
get your deserts
get your dues
get your feet on the ground
get your feet wet
get your fingers on
get your goat
get your gorge up
get your hands on
ghost moth
ghost name
ghost of a great name
ghost plant
ghost shrimp
ghost soul
ghost story
ghost town
ghost word
ghost world
ghost writer
ghost-fearing
ghost-filled
ghost-haunted
ghost-ridden
ghost-weed
ghost-writer
giallo antico
giant arrowhead
giant bamboo
giant bass
giant cane
giant chinquapin
giant crab
giant daisy
giant fennel
giant fescue
giant fulmar
giant garlic
giant granadilla
giant ground sloth
giant holly fern
giant hornet
giant killer
giant lily
giant lizard
giant of learning
giant order
giant panda
giant parsnip
giant petrel
giant planet
giant powder
giant ragweed
giant reed
giant rye grass
giant schnauzer
giant sea bass
giant sequoia
giant silkworm moth
giant size
giant slalom
giant sloth
giant snowdrop
giant star
giant step
giant steps
giant stride
giant sunflower
giant tortoise
giant water bug
giant-like
giant-sized
gib fish
gib plate
gib-cat
gib-head
gib-head key
gibbed cat
gibber bird
gibberelic acid
gibberellic acid
gibbet law
gibbet tree
gibble-gabble
gibble-gabbler
gibboso-
gibbous moon
gibby stick
gibe at
gibing retort
giblet-check
giblet-checked
giblet-cheek
gibus hat
giddy as a goose
giddy-brained
giddy-drunk
giddy-go-round
giddy-headed
giddy-paced
giddy-pated
giddy-witted
gier-eagle
giff-gaff
gift balsam
gift certificate
gift for
gift of expression
gift of gab
gift of the gab
gift of tongues
gift rope
gift shop
gift tax
gift with
gift wrap
gift wrapping
gift-rope
gift-wrap
gift-wrapped
gift-wrapper
gift-wrapping
gift-wrapt
gifted child
gifted person
gig lamp
gig machine
gig mill
gig-lamp
gig-mill
giga-
gigaelectron volt
gigant-
giggle house
gigot sleeve
gila monster
gild the lily
gild the pill
gilding metal
gilding wax
gilgai soil
gill arch
gill bailer
gill bar
gill basket
gill book
gill box
gill cavity
gill chamber
gill cleft
gill comb
gill cover
gill filament
gill frame
gill fungus
gill helix
gill net
gill plume
gill pouch
gill rake
gill raker
gill rod
gill scoop
gill slit
gill-ale
gill-book
gill-cup
gill-flirt
gill-less
gill-like
gill-netter
gill-over-the-ground
gill-run
gill-shaped
gillie-wetfoot
gillie-whitefoot
gilling machine
gilling thread
gilt-edge
gilt-edged
gilt-edged securities
gilt-handled
gilt-head
gilt-headed
gilt-knobbed
gilt-robed
gilt-tail
gim peg
gimbal joint
gimbal ring
gimlet bit
gimlet eye
gimlet-eyed
gimmer hog
gimmer lamb
gimp lapper
gimp nail
gin and tonic
gin block
gin drinker's liver
gin fizz
gin mill
gin palace
gin pole
gin race
gin rickey
gin ring
gin rummy
gin sling
gin wagon
gin wheel
gin yard
gin-mill
gin-palace
gin-run
gin-saw
gin-saw file
gin-shop
gin-sling
gingelly oil
ginger ale
ginger beer
ginger bleacher
ginger bread
ginger buyer
ginger extract
ginger family
ginger grass
ginger group
ginger jar
ginger lily
ginger nut
ginger oil
ginger pine
ginger plant
ginger pop
ginger punch
ginger quill
ginger root
ginger snap
ginger spice
ginger tea
ginger up
ginger wine
ginger-beer
ginger-beery
ginger-color
ginger-colored
ginger-faced
ginger-grass oil
ginger-hackled
ginger-haired
ginger-pop
ginger-red
gingerbread man
gingerbread nut
gingerbread palm
gingerbread plum
gingerbread tree
gingili oil
gingiv-
ginkgo nut
ginny carriage
ginny-carriage
ginseng family
gipsy capstan
gipsy moth
gipsy winch
giraffe camel
girandole clock
girasol thorn
gird up your loins
gird your loins
girder bridge
girder erector
girder rail
girder riveter
girder stay
girder tool
girdle band
girdle bone
girdle pain
girdle sensation
girdle the globe
girdle wheel
girdle-tailed lizard
girl Friday
girl Fridays
girl friday
girl friend
girl guide
girl next door
girl scout
girl show
girl-o
girl-os
girl-shy
girl-watcher
girls' room
girly show
girt-line
girth web
girth-web
give 'em hell
give a
give a Roland for an Oliver
give a bad name
give a bad time to
give a bawling out
give a beating
give a big hand
give a bit of your mind
give a black eye
give a black mark
give a blank check
give a boost
give a boost to
give a bouquet
give a briefing
give a bum steer
give a buzz
give a cheer
give a color to
give a cursory look
give a damn
give a darn
give a dekko
give a direct order
give a dirty look
give a dog a bad name
give a dose of birch oil
give a dose of hazel oil
give a dose of hickory oil
give a dose of strap oil
give a dressing-down
give a fair shake
give a false alarm
give a false coloring
give a false idea
give a false impression
give a figure to
give a fillip to
give a fling
give a for-instance
give a free course to
give a free hand
give a free translation
give a go
give a going-over
give a good
give a good account of yourself
give a guess
give a hand
give a hearing to
give a helping hand
give a hint
give a job to
give a knockdown
give a leg up
give a lesson
give a lesson to
give a lick and a promise
give a lift
give a loose translation
give a miss to
give a nod of assent
give a party
give a performance
give a piece of advice
give a piece of your mind
give a pointer to
give a posy
give a promise
give a quick look
give a quid pro quo
give a rap on the knuckles
give a raw deal
give a report
give a reprieve
give a ring
give a shout of laughter
give a show
give a shriek of laughter
give a sidelong look
give a signal
give a square deal
give a start
give a suggestion
give a surprise party
give a talk
give a thrashing
give a thrill
give a tone to society
give a transfusion
give a trial to
give a try
give a tryout
give a turn to
give a twist to
give a warm reception to
give a whammy
give a whipping
give a whirl
give a wide berth
give a wide berth to
give a willing ear
give a workout
give a write-up
give a wrong idea
give absolution
give acknowledgment
give admittance to
give advance notice
give air to
give an account of
give an alarm
give an appreciation
give an assignment
give an assist
give an ear
give an encore
give an entree
give an examination
give an exclamation
give an idea of
give an impetus
give an impression of
give an impulse to
give an inch and take an ell
give an inkling of
give an introduction
give an obolus to Charon
give an open mandate
give an opinion
give an order
give and take
give answer
give as a gift
give as an excuse
give as good as was sent
give as good as you get
give as much as you take
give assent
give attention
give audience to
give away
give back
give battle
give being to
give benediction
give birth
give birth to
give bridle to
give by way of information
give care to
give carte blanche
give chase
give cheerfully
give comfort
give concern
give confidential information
give consent
give credence to
give credit
give credit to
give danger a wide berth
give directions
give directions to
give dispensation from
give ear
give ear to
give emphasis to
give encouragement
give entrance to
give evidence
give expression
give expression to
give fair warning
give faith to
give for free
give forgiveness
give forth
give forth a sound
give free course to
give free play to the emotions
give free rein to
give freely
give full authority
give full particulars
give full play
give full power
give good reasons for
give good returns
give greater draft fore and aft
give ground
give ground for expecting
give hail Columbia
give heed
give heed to
give hell
give help
give her beans
give her less rudder
give her more rudder
give homework
give honor to
give hope
give importance to
give in
give in charge
give in exchange
give in kind
give in marriage
give in return
give in trust
give indication of
give instruction
give instructions
give it a go
give it a second thought
give it all your got
give it no more thought
give it the gas
give it the gun
give it to
give it your all
give leave
give lessons in
give life to
give light
give line
give lip service
give little weight to
give measure for measure
give mind to
give momentum
give moral support to
give more matter and less art
give more than your share
give mouth honor
give new life to
give no cheer
give no comfort
give no credence to
give no credit to
give no heed
give no joy
give no pleasure
give no quarter
give no trouble
give notice
give notification
give occasion to
give of
give of your substance
give of yourself
give off
give off waves of heat
give offense
give offense to
give official sanction
give official warrant
give one a scare
give one a turn
give one line
give onto
give or take a little
give origin to
give out
give out a smell
give out with
give over
give over to
give pain
give pause
give permission
give place
give place to
give pleasure
give power
give prominence
give prospect of
give publicity
give quarter
give reason for
give recognition
give refuge to
give rein to
give release
give relief
give respite
give rise to
give rope enough to
give salvation
give sanctuary to
give satisfaction
give security
give shelter to
give sign
give someone a dose
give someone enough rope
give someone his due
give someone the eye
give someone the slip
give someone your hand on
give something the gun
give sorrow words
give special attention to
give support
give surcease
give texture
give thanks
give the
give the Bronx cheer
give the Devil his due
give the air
give the asking price
give the ax
give the ax to
give the battle cry
give the benefit of the doubt
give the bird
give the bum's rush
give the business
give the chuck to
give the coat off your back
give the cold shoulder
give the cold shoulder to
give the come-on
give the cue
give the deuce
give the devil
give the evil eye
give the eye
give the facts
give the feeling of
give the finishing strokes
give the finishing touches
give the freedom of
give the gate
give the glad eye
give the glad hand
give the go-ahead
give the go-by
give the good word
give the green light
give the guy to
give the high sign
give the hook
give the imprimatur
give the kiss of death to
give the lie to
give the meaning
give the mind to
give the nod
give the old heave-ho
give the once-over
give the pink slip
give the quietus
give the quietus to
give the raspberry
give the reins to
give the run of
give the runaround
give the sack to
give the shirt off your back
give the shoulder
give the show away
give the silent treatment
give the slip
give the stick
give the word
give the word of command
give the works
give thought to
give thumbs up
give tick
give tidings of
give tit for tat
give title to
give to
give to the world
give token
give tongue
give top billing to
give umbrage
give until it hurts
give up
give up all expectation
give up all hope
give up hope
give up the crown
give up the ghost
give up your post
give upon
give utterance
give vent to
give voice
give warning
give way
give way to
give way to tears
give what-for
give with an open hand
give with both hands
give witness
give word
give word for word
give words to
give you
give you a bad time
give you a bang
give you a bellyful
give you a blank check
give you a boot
give you a charge
give you a fright
give you a hard time
give you a kick
give you a lift
give you a pain
give you a revelation
give you a scare
give you a send-off
give you a swift pain in the ass
give you a tip
give you a turn
give you a whammy
give you another chance
give you carte blanche
give you gooseflesh
give you his gruel
give you his head
give you his walking papers
give you leeway
give you room
give you rope
give you scope
give you short shrift
give you space
give you the evil eye
give you the glad eye
give you the lie
give you the lie direct
give you the lie in your throat
give you the lip
give you the run-around
give you the slip
give you the works
give you tit for tat
give you to understand
give you trouble
give you what is coming to you
give you your comeuppance
give you your deserts
give your best
give your best regards
give your blessing
give your blessing to
give your compliments
give your countenance to
give your eyeteeth
give your eyeteeth for
give your fair share
give your hand to
give your kingdom in hell for
give your life for your country
give your love
give your mind to
give your parole
give your regards
give your share
give your support to
give your thanks
give your undivided attention
give your voice for
give your word
give your word of honor
give yourself airs
give yourself for
give yourself over to
give yourself over to pleasure
give yourself up
give yourself up to
give yourself up to reverie
give-and-take
give-up
giveaway show
given a jar
given a jolt
given a turn
given birth
given fact
given name
given to
given to drink
given up
given up for dead
giver-out
giving back
giving birth
giving in
giving out
giving over
giving up
giving way
gizzard shad
gizzard trout
glacial acetic acid
glacial boulder
glacial deposit
glacial epoch
glacial lake
glacial meal
glacial milk
glacial movement
glacial period
glacier bear
glacier cataract
glacier lily
glacier milk
glacier table
glacier theory
glacis plate
glad eye
glad hand
glad hand, the
glad rags
glad tidings
glad to see you
glad-cheered
glad-flowing
glad-hand
glad-handed
glad-hander
glad-sad
glad-surviving
glade lily
glade mallow
glamour girl
glamour issue
glamour puss
glance at
glance coal
glance cobalt
glance copper
glance of the eye
glance off
glance over
glance pitch
glance through
glance upon
glancing angle
glancing boom
glancing light
gland disease
glandular fever
glandular plague
glandular therapy
glans clitoridis
glans penis
glare ice
glare-eyed
glaring light
glaring look
glass bead
glass block
glass blower
glass blowing
glass brick
glass burner
glass cement
glass coach
glass curtain
glass cutter
glass cutting
glass decorator
glass eye
glass gall
glass harmonica
glass house
glass jaw
glass lizard
glass of time
glass painting
glass pot
glass pox
glass printing
glass sculpture
glass snail
glass snake
glass soap
glass string
glass tank
glass wool
glass-blower
glass-blowing
glass-bottomed
glass-bottomed boat
glass-built
glass-cabin launch
glass-cloth
glass-coach
glass-coated
glass-colored
glass-covered
glass-cutter
glass-cutting
glass-eater
glass-eyed
glass-faced
glass-fronted
glass-glazed
glass-green
glass-hard
glass-house
glass-lined
glass-maker
glass-man
glass-paneled
glass-paper
glass-topped
glass-work
glassed-in
glasses case
glassy-eyed
glauber's salt
glaucous blue
glaucous gray
glaucous green
glaucous gull
glaucous-green
glaucous-winged
glaze frost
glaze ice
glaze kiln
glaze wheel
glazed doughnut
glazed frost
glazed ware
glazier's point
glazing bar
glazing bead
glazing brad
glazing-bar
gleam of hope
gleam of light
gleaming smile
glean knowledge
gleam learning
glebe house
glebe land
glee club
glee-eyed
glen nymph
glenarry bonnet
gleno-
glial cells
glib tongue
glib-gabber
glib-tongued
glide bomb
glide consonant
glide into
glide landing
glide path
glide plane
glide vowel
glide-bomb
gloomy-browed
gloomy-faced
glor-fat
glorify the Lord
glory be
glory be to
glory be to God
glory be to God in the highest
glory bower
glory box
glory flower
glory hole
glory in
glory lily
glory pea
glory to God
glory tree
glory vine
glory-hole
glory-of-the-snow
glory-of-the-snows
glory-of-the-sun
glory-of-the-suns
glory-pea
gloss of novelty
gloss oil
gloss over
gloss-
glosso-
glossopalatine arch
glossopalatine nerve
glossopharyngeal nerve
glossopharyngeal neuralgia
glossy snake
glossy-black
glossy-leaved
glossy-white
glost fire
glost fireman
glost firing
glost oven
glost placer
glost-fired
glott-
glottal stop
glotto-
glove box
glove compartment
glove contest
glove grain
glove maker
glove money
glove puppet
glove silk
glove silver
glove sponge
glove stitch
glover's stitch
glow beetle
glow discharge
glow discharge tube
glow lamp
glow light
glow lighting
glow meter
glow plug
glow tube
glow-discharge microphone
glow-worm
glowering look
glowing health
glowing smile
gloze over
glucaric acid
gluck-gluck
gluckliche Reise
gluconic acid
glucose sirup
glucose vinegar
glucuronic acid
glue boiler
glue bottle
glue brush
glue cell
glue maker
glue on
glue plant
glue sniffer
glue stock
glue the mind to
glue water
glue-pot
glued-up
gluing-off
glut herring
glut on the market
glut-
 glutamic acid
 glutaminic acid
 gluteal region
 glutei maximi
 gluten bread
 gluten feed
 gluten flour
 gluten meal
 gluteus maximus
 gluteus medius
 gluteus minimus
 glutton bird
 glyc-
glycer-
glyceria wax
 glyceric acid
 glyceric aldehyde
 glycerin jelly
 glycerin lye
 glycerin soap
 glycerol nitrates
 glycercylic esters
 glycercylic ester
 glycercylic group
 glycercylic monoacetate
 glycercylic nitrate
 glycercylic radical
 glycercylic trinitrate
 glycercylic trioleate
 glycercylic tripalmitate
 glyco-
glycogen disease
 glycogenic acid
 glycolic acid
 glycollic acid
 glyconic acid
 glycuronic acid
 glycyrhrhizae composita
 glyoxyl urea
 glyptic artist
 glyptographic artist
 gnamma hole
 gnash your teeth
 gnashing of teeth
 gnat hawk
 gnath-
gnathic index
gnaw at the root of
gnaw away
gnawing of the bowels
gnawing pain
gneissoid-granite
gnome owl
gnomonic projection
gnothi seauton
gnu goat
go AWOL
go Dutch
go a journey
go aboard
go about
go about your business
go abroad
go across
go adrift
go after
go against
go against the grain
go aground
go ahead
go ahead of
go all colors
go all lengths
go all out
go all the way
go aloft
go along
go along with
go along with the crowd
go alongside
go amiss
go and
go and do
go and get
go and hang yourself
go ape
go ape over
go around
go around and around
go around in circles
go as
go as the crow flies
go as you please
go ashore
go ass over elbows
go astern
go astray
go astray from
go at
go at a snail's pace
go at flank speed
go at full blast
go at full steam
go at full tilt
go at it ass-backwards
go at large
go at liberty
go at the double
go away
go awol
igo awry
go back
go back on
go back on your word
go back over
go back to
go backwards
go bad
go bail
go bail for
go bananas
go bankrupt
go beddy-bye
go before
go begging
go behind
go below
go berserk
go beside
go between
go beyond
go beyond reason
go beyond the bounds of reason
go blind
go broke
go bush
go by
go by air
go by airline
go by fits and starts
go by plane
go by rail
go by ship
go by the board
go by the name of
go bye-bye
go cahoots
go cahoots with
go camping
go cap in hand to
go chase yourself
go contrary to
go counter to
go crabwise
go crackers
go crazy
go dead
go dead slow
go deaf
go deep
go deep into
go directly
go down
go down in the world
go down like a stone
go down on your knees to
go down the drain
go down to the sea in ships
go down with flying colors
go downhill
go easily
go easy
go easy on
go even stephen
go even stephen with
go far
go far afield
go fast
go fetch
go fifty-fifty
go fifty-fifty with
go fish
go fishing
go flat out
go fly a kite
go for
go for a Sunday drive
go for a burton
go for a drive
go for a ride
go for a spin
go for a walk
go for an airing
go for an outing
go for broke
go for the deck
go foreign
go forth
go forward
go free
go from bad to worse
go from home
go from push to shove
go full speed ahead
go full speed astern
go full steam ahead
go full tilt at
go gauge
go get
go great guns
go gunning for
go halvers
go halvers with
go halves
go hand in hand
go hand in hand with
go hard with
go haywire
go head over heels
go hell-bent for election
go home
go home feet first
go hungry
go hunting
go ill with
go in
go in advance
go in bathing
go in business for yourself
go in cahoot with
go in cahoots
go in debt
go in for
go in harm’s way
go in hock
go in hock for
go in one ear and out the other
go in opposition to
go in partners
go in partnership
go in peace
go in pursuit of
go in search of
go in swimming
go in the face of
go in the lead
go in the rear of
go in wading
go in with
go into
go into a funk
go into a huddle
go into a tail spin
go into a tailspin
go into a tantrum
go into convulsions
go into decay
go into detail
go into heart and soul
go into hiding
go into hysterics
go into litigation
go into mourning
go into orbit
go into outer space
go into partnership with
go into raptures
go into receivership
go into retirement
go into reverse
go into seclusion
go into shock
go into the money market
go into training
go into your pocket
go it alone
go jump in the lake
go kaput
go lame
go light
go like
go like a bat out of hell
go like a flash
go like a shot
go like a streak of lightning
go like clockwork
go like greased lightning
go like hot cakes
go like lightning
go like the wind
go long
go mad
go maku
go marketing
go native
go near
go night-night
go off
go off at a tangent
go off at half cock
go off half-cocked
go off in all directions at once
go off on a tangent
go off soundings
go off the air
go off the deep end
go off the track
go off the trolley
go off to sleep
go off your head
go off your nut
go off your rocker
go on
go on a bat
go on a bender
go on a binge
go on a bust
go on a crusade
go on a crusade against
go on a diet
go on a drunk
go on a honeymoon
go on a journey
go on a pilgrimage
go on a rampage
go on a rip
go on a sight-seeing trip
go on a spending spree
go on a spree
go on a tear
go on a toot
go on a trip
go on a voyage
go on a wartime footing
go on a wild-goose chase
go on a wrong tack
go on about
go on all fours
go on all fours with
go on an ego trip
go on an expedition
go on and on
go on bended knee to
go on board
go on forever
go on furlough
go on hands and knees
go on horseback
go on in the old jog-trot way
go on leave
go on over
go on parade
go on record
go on safari
go on shipboard
go on strike
go on the air
go on the blink
go on the bum
go on the defensive
go on the fritz
go on the heel and toe
go on the merry-go-round
go on the road
go on the rocks
go on the shoals
go on the stump
go on the town
go on the warpath
go on tick
go on tiptoe
go on welfare
go on with
go on with the show
go on your beat
go once over lightly
go one better
go onto
go onwards and upwards
go out
go out for
go out like a lamb
go out like a light
go out of bounds
go out of business
go out of line
go out of style
go out of the way
go out of use
go out of your depth
go out of your skull
go out of your way
go out on a limb
go out on strike
go out the window
go out with
go out with the ebb
go out with the tide
go over
go over again and again
go over and over
go over big
go over like a lead balloon

go over step by step

go over the board

go over the ground

go over the hill

go over the same ground

go over the side

go over the top

go over the wall

go over to the enemy

go over to the great majority

go over to the majority

go over your head

go overboard

go overseas

go partners

go peddle your fish

go phut

go pitapat

go pitter-patter

go places

go places and do things

go public

go right through

go roll your hoop

go round

go round Robin Hood's barn

go round about
go round like a horse in a mill
go scot free
go separate ways
go shares
go shopping
go short
go sideways
go sit on a tack
go slow
go slowly
go slumming
go snack
go soak your head
go soft
go soft at the edges
go steady
go step by step
go straight
go straight on
go straight to the point
go the dizzy rounds
go the limit
go the long way around
go the other way
go the round
go the rounds
go the route
go the same round
go the vole
go the way of all earth
go the way of all flesh
go the whole hog
go the whole length
go the whole way
go through
go through a change
go through channels
go through fire and water
go through hell and high water
go through one
go through one's head
go through phases
go through the motions
go through with
go through with it
go through your paces
go through your part
go to
go to Abraham's bosom
go to Canossa
go to Davy Jones's locker
go to a better land
go to a better life
go to a better place
go to a better world
go to a watery grave
go to all lengths
go to an extreme
go to and fro
go to any length
go to any lengths
go to bat for
go to bed
go to bed with
go to do
go to extremes
go to foreign places
go to foreign shores
go to get
go to glory
go to grass
go to great lengths
go to great pains
go to ground
go to hell
go to it
go to kingdom come
go to law
go to loggerheads
go to perdition
go to pieces
go to pot
go to press
go to rack and manger
go to rack and ruin
go to rest
go to ruin
go to school
go to sea
go to sea in a sieve
go to seed
go to shivers
go to show
go to sleep
go to smash
go to smithereens
go to the bad
go to the bathroom
go to the bitter end
go to the bottom
go to the country
go to the deuce
go to the devil
go to the dogs
go to the electorate
go to the front for
go to the happy hunting grounds
go to the mat with
go to the trouble
go to the voters
go to the wall
go to town
go to town on
go to war
go to waste
go to windward
go to wrack and ruin
go to your glory
go to your head
go to your heart
go to your last home
go to your long account
go to your rest
go to your reward
go together
go too far
go treat
go under
go under a false name
go under an alias
go under an assumed name
go under false colors
go under false pretenses
go under the knife
go under the name of
go underground
go unrestrained
go up
go up and up
go up blind alleys
go up in smoke
go up in your lines
go up on your lines
go up the nose
go up the spout
go up the wall
go up to with hat in hand
go uphill
go upon
go well
go west
go whole hog
go with
go with the current
go with the party
go with the stream
go with the tide
go without
go without saying
go wonder
go woolgathering
go wrong
go your own way
go your rounds
go your way
go-about
go-ahead
go-as-you-please
go-ashore
go-away bird
go-back
go-between
go-by
go-cart
go-devil
go-down
go-getter
go-getterism
go-getting
go-go
go-go dancer
go-kart
go-moku
go-off
go-quick
go-slow policy
go-to-itiveness
go-to-meeting
goa powder
goad on
goal area
goal crease
goal judge
goal kick
goal line
goal minder
goal net
goal post
goal posts
goal stick
goal tender
goal tending
goal-post mast
goat antelope
goat chaffer
goat cheese
goat fig
goat god
goat grass
goat hair
goat marjoram
goat milker
goat moth
goat nut
goat owl
goat pepper
goat pox
goat rue
 goat's hair
goat's-beard
goat's-rue
goat-bearded
goat-drunk
goat-eyed
goat-footed
goat-headed
goat-herd
goat-hoofed
goat-horned
goat-keeping
goat-kneed
goat-pox
goat-toothed
 goatsfoot convolvulus
gob line
gob rope
gob-line
gobar numerals
gobble down
gobble up
gobe-mouches
goblet cell
goblin fish
goblin scarlet
goblin shark
god head
god of evil
god of justice
god of lightning
god of trade
god's acre
god's penny
god's-penny
god-a-mercy
god-almighty
god-child
god-damn
god-daughter
god-fearing
god-horse
god-king
god-mamma
god-man
god-papa
god-parent
god-sphere
god-speed
goddam it
goddess of evil
goddess of justice
goddess-like
goddesses of discord
godforsaken place
godly-learned
godly-minded
godly-mindedness
gods of
gods of commerce
gods of evil
gods of marriage
gods of the nether world
goer-by
gofferor gauffer
goggle eyes
goggle-eye
goggle-eye scad
goggle-eyed
goggle-eyes
goggle-nose
going about
going afoot
going against the current
going ahead
going along with
going around
going around in circles
going ashore
going away
going barrel
going behind
going between
going down of the sun
going for broke
going forth
going fusee
going light
going off
going on
going on all fours
going on foot
going out
going over
going price
going strong
going through
going to Jerusalem
going to happen
going to pieces
going to the polls
going train
going wheel
going-concern
going-concern value
going-out-of-business sale
going-over
going on
going-ons
going-overs
goiter stick
gold apple
gold assayer
gold bank
gold bar
gold basis
gold bass
gold beating
gold beetle
gold beryl
gold blocker
gold blocking
gold bond
gold book
gold brick
gold bronze
gold brown
gold bullion standard
gold carp
gold certificate
gold chloride
gold clause
gold democrat
gold depository
gold digger
gold digging
gold diggings
gold driver
gold dust
gold fever
gold field
gold foil
gold lace
gold leaf
gold maker
gold making
gold medal
gold melter
gold mine
gold miner
gold mining
gold monochloride
gold note
gold nugget
gold of pleasure
gold orange
gold pan
gold panner
gold piece
gold plate
gold point
gold refiner
gold reserve
gold rush
gold seeker
gold solder
gold spinner
gold standard
gold star
gold stick
gold therapy
gold tooth
gold topaz
gold trichloride
gold warden
gold washer
gold washing
gold working
gold-and-silver plant
gold-ball
gold-banded
gold-basket
gold-bearing
gold-beater
gold-beating
gold-bloom
gold-bound
gold-braided
gold-breasted
gold-brick
gold-bright
gold-broidered
gold-bug
gold-bullion standard
gold-ceiled
gold-chain
gold-clasped
gold-colored
gold-containing
gold-crested
gold-daubed
gold-decked
gold-dig
gold-digger
gold-dust
gold-dust tree
gold-edged
gold-embossed
gold-embroidered
gold-enwoven
gold-exchange
gold-exchange standard
gold-field
gold-fields
gold-filled
gold-finder
gold-fish
gold-foil
gold-framed
gold-fringed
gold-graved
gold-green
gold-haired
gold-headed
gold-hilted
gold-inlaid
gold-laced
gold-laden
gold-leaf
gold-lit
gold-mine
gold-mounted
gold-of-pleasure
gold-plate
gold-plated
gold-plating
gold-red
gold-ribbed
gold-rimmed
gold-robbed
gold-rolling
gold-rush
gold-seeking
gold-star
gold-striped
gold-strung
gold-studded
gold-tail moth
gold-testing
gold-washer
gold-weight
gold-winged
gold-work
gold-wrought
gold-yellow
goldbeater's skin
golden age
golden aster
golden bamboo
golden bantam corn
golden beryl
golden boy
golden buck
golden calf
golden calla lily
golden chain
golden clematis
golden coreopsis
golden crest
golden crown
golden crownbeard
golden currant
golden disc
golden dream
golden eagle
golden eardrop
golden era
golden exhalations of the dawn
golden feather
golden fizz
golden flax
golden fleece
golden glow
golden goose
golden gram
golden handshake
golden horde
golden jubilee
golden loosestrife
golden marguerite
golden mean
golden millet
golden mole
golden nematode
golden number
golden oat
golden opportunity
golden oriole
golden pheasant
golden plover
golden polypody
golden potto
golden queen
golden ragwort
golden rain
golden retriever
golden rose
golden rule
golden sable
golden saying
golden season of life
golden section
golden shower
golden silence
golden slumbers
golden spider lily
golden star
golden stars
golden syrup
golden thistle
golden time
golden touch, the
golden trout
golden tuft
golden vision
golden warbler
golden wattle
golden wedding
golden wedding anniversary
golden years, the
golden yellow
golden-ager
golden-banded
golden-banded lily
golden-bearded
golden-breasted
golden-brown
golden-cheeked
golden-chestnut
golden-colored
golden-crested
golden-crowned
golden-crowned kinglet
golden-cup
golden-cup oak
golden-eared
golden-eye
golden-eyed
golden-eyed fly
golden-eyed grass
golden-feather yellow
golden-fettered
golden-fingered
golden-footed
golden-fruited
golden-gleaming
golden-glowing
golden-green
golden-haired
golden-headed
golden-hilted
golden-hued
golden-leaved
golden-locked
golden-mouthed
golden-rain tree
golden-rayed
golden-rod
golden-spotted
golden-throned
golden-tipped
golden-toned
golden-tongued
golden-tressed
golden-voiced
golden-winged
golden-yellow
goldenrain tree
goldenrod tree
goldfish bowl
goldsmith beetle
golf bag
golf ball
golf cart
golf club
golf course
golf green
golf hose
golf links
golf red
golf shoe
golf widow
golgi apparatus
golgi body
goliath beetle
goliath crane
goliath frog
goliath heron
golo-shoe
gom-paauw
gombeen-man
gombeen-men
gombroon ware
gomoku-zogan
gomuti palm
gon-
good Samaritan
good afternoon
good and
good and mad
good and ready
good and tired
good angel
good appearance
good arvo
good as gold
good at
good at the price
good auspices
good behavior
good book
good boy good girl
good boy good girl
good break
good breeding
good buy
good case
good chance
good character
good cheap
good cheer
good child
good citizen
good citizenship
good clothes
good company
good condition
good constitution
good cry
good day
good deal
good deed
good deportment
good digestion
good disposition
good effect
good egg
good enough
good estate of body
good even
good evening
good example
good faith
good features
good name
good nature
good neighbor
good news
good night
good night's sleep
good now
good odor
good offices
good oil
good old days
good old summertime
good old times
good omen
good one
good opportunity
good palate
good pennyworth
good people
good person
good points
good possibility
good price
good prognosis
good proportions
good prospect
good quality or effect
good question
good reason
good reasoning
good report
good reputation
good repute
good riddance
good sense
good shape
good shot
good show
good side of, the
good society
good soldier
good sooth
good sort
good speed
good spirits
good sport
good sportsmanship
good state of health
good stewardship
good story
good sum
good supply
good sword
good taste
good temper
good templar
good terms
good thing
good things of life
good time
good times
good to eat
good trim
good turn
good understanding
good usage
good use
good vibes
good vibrations
good ways
good weather
good will
good will to man
good will toward man
good wishes
good woman
good word
good works
good writing
good-by
good-bye
good-bye-summer
good-daughter
good-den
good-doer
good-faith
good-father
good-fellow
good-fellowhood
good-fellowish
good-fellowship
good-for
good-for-naught
good-for-nothing
good-for-nothingness
good-hearted
good-humored
good-humoredly
good-humoredness
good-humoured
good-humouredly
good-humouredness
good-looking
good-looker
good-lookingness
good-luck charm
good-luck piece
good-mannered
good-morning-spring
good-mother
good-natured
good-natured banter
good-naturedly
good-naturedness
good-neighbor
good-neighbor policy
good-neighbourhood
good-night
good-o
good-oh
good-plucked
good-sister
good-size
good-sized
good-tasting
good-tempered
good-temperedly
good-temperedness
good-time
goodness gracious
goodness of fit
goodness of heart
goods and chattels
goods dollar
goods engine
goods for sale
goods train
goods waggon
goods wagon
goods yard
goods, the
goody good-good
goody gumdrops
goose-foot
goose-footed
goose-grass
goose-grease
goose-headed
goose-neck
goose-pimple
goose-pimply
goose-quill
goose-shaped
goose-skin
goose-step
goose-stepped
goose-stepper
goose-stepping
goose-wing
gooseberry bush
gooseberry family
gooseberry fool
gooseberry fruitworm
gooseberry gourd
gooseberry mildew
gooseberry moth
gooseberry picker
gooseberry pie
gooseberry rust
gooseberry sawfly
gooseberry spanworm
gooseberry stone
gooseberry tomato
gooseberry tree
gooseberry wine
gooseberry-eyed
goosefoot family
goosefoot maple
gooseneck lamp
gooseneck slicker
goosewing jibe
gopher apple
gopher ball
gopher drift
gopher frog
gopher hole
gopher plant
gopher plum
gopher snake
gopher tortoise
gopher turtle
gopher wood
gopher-hole blast
gora log
gordian knot
gordon setter
gordura grass
gore strake
gore-fish
goreng pisang
gorge circle
gorge hook
gorge on
gorge wind
gorge yourself
gorgon plant
gorgon-headed
goring cloth
gorse duck
gorse hatcher
gos-lettuce
gosh-awful
gosh-darn
gosling color
gosling grass
gosling green
gospel music
gospel oath
gospel side
gospel truth
gospel-true
gosport tube
gossamer fern
gossamer spider
gossip column
gossip columnist
gossip made tedious by morality
got to
gothic arch
gothic section
gouden reaal
gouge carving
gouge out
gouge shell
gourd cup
gourd family
gourd melon
gourd towel
gourd tree
gourd-shaped
gourdhead buffalo
gourdseed buffalo
gourmet quality
gout fly
gout ivy
gout of rain
gout tree
gouty arthritis
gouty stool
gouv-
governess-ship
governing board
governing body
government archives
government bar
government bond
government building
government control
government depository
government hospital
government insurance
government issue
government man
government mark
government note
government of the people
government paper
government papers
government securities
government stamp
government-general
government-in-exile
government-owned
governmental leadership
governor general
governor generals
governor's council
governor's mansion
governor-elect
governor-general
governor-generalship
governors general
gowk storm
gown boy
gown-fashion
gr wt
gr-s
graafian follicle
grab at
grab bag
grab bar
grab barrel
grab box
grab bucket
grab dredge
grab hold of
grab line
grab link
grab machine
grab off
grab one
grab rope
grab skipper
grab the thoughts
grab-all
grabbot gin
grace cup
grace drink
grace hoop
grace note
grace of expression
grace period
grace with
grace-and-favor
grace-and-favour
grace-cup
graceful gesture
gracious life
gracious living
grade bar
grade by grade
grade cricket
grade crossing
grade insignia
grade line
grade peg
grade school
grade schooler
grade separation
grade stake
graded post
graded school
gradient microphone
gradient post
gradient wind
gradual change
graduate assistant
graduate education
graduate nurse
graduate school
graduate student
graduate-professional
graduate-professional education
graduated scale
graduated student
graduated tape
graduated taxation
graduating engine
graduation exercises
graeco-
graft hybrid
graft-hybridism
graft-hybridization
grafting wax
graham bread
graham cracker
graham flour
graham wafer
grain alcohol
grain aphid
grain beetle
grain bill
grain bin
grain binder
grain borer
grain broker
grain carrier
grain cleaner
grain cradle
grain crusher
grain drill
grain elevator
grain farm
grain farmer
grain farming
grain founder
grain glove
grain gold
grain grower
grain growth
grain harvester
grain huller
grain lac
grain leather
grain louse
grain mark
grain mash
grain merchant
grain miller
grain moth
grain musk
grain of salt
grain of sand
grain oil
grain pan
grain refiner
grain rust
grain sack
grain sacker
grain sampler
grain screen
grain screener
grain shipper
grain side
grain smut
grain soap
grain sorghum
grain thresher
grain tin
grain traveler
grain weevil
grain weigher
grain-burnt
grain-carrying
grain-cleaning
grain-cut
grain-eater
grain-eating
grain-fed
grain-growing
grain-laden
grain-wagon hitch
grains d'orge
grains of paradise
gram atom
gram calorie
gram degree
gram equivalent
gram equivalent weight
gram ion
gram molecule
grand feu
grand final
grand finale
grand fir
grand guignol
grand inquisitor
grand jete
grand juror
grand jury
grand juryman
grand lama
grand larceny
grand mal
grand march
grand master
grand monde
grand old man
grand opera
grand passion
grand pian
grand piano
grand prior
grand quarter
grand seigneur
grand seignior
grand serjeanty
grand sicle
grand signior
grand slap
grand sonnerie
grand tactics
grand theft
grand total
grand tour
grand vicar
grand vizier
grand-
grand-aunt
grand-dad
grand-daughter
grand-ducal
grand-juror
grand-juryman
grand-nephew
grand-niece
grand-scale
grand-slammer
grand-uncle
grande dame
grande passion
grandes dames
grandes passions
grandfather chair
grandfather clause
grandfather clock
grandfather graybeard
grandfather longlegs
grandfather's chair
grandfather's clock
grandmother clock
grandmother's clock
grandstand play
grandstand player
granger laws
grani-
granite blue
granite gray
granite paper
granite porphyry
granite quarrier
granite-dispersing
granite-gneiss
granite-gruss
granite-sprinkled
granny flat
granny glasses
granny knot
granny's bend
granny's knot
granny-thread
grano-
grant a decree of nullity
grant a divorce
grant a final decree
grant a reprieve
grant amnesty to
grant an annulment
grant bail to
grant citizenship
grant exemption
grant forgiveness
grant immunity
grant of probate
grant remission
grant-in-aid
grants-in-aid
granul-
granular snow
granular texture
granulated soap
granulated sugar
granulation tissue
granule cell
granule gravel
granulo-
granuloma inguinale
granuloma venereum
grape cane borer
grape cherry
grape curculio
grape cure
grape disease
grape family
grape fern
grape green
grape grower
grape growing
grape hoe
grape hopper
grape hyacinth
grape juice
grape leaf folder
grape leaf hopper
grape louse
grape mildew
grape moth
grape pear
grape phylloxera
grape picker
grape picking
grape ranch
grape rootworm
grape rot
grape rust
grape scale
grape seed
grape sugar
grape tomato
grape tree
grape weevil
grape wine
grape worm
grape-bearing
grape-berry moth
grape-eater
grape-hued
grape-leaved
grape-seed oil
grape-shaped
grape-shot
grape-sized
grape-stone
grape-vine
grapefruit juice
grapefruit league
grapefruit spoon
grapes of wrath
grapevine fidia
grapevine flea beetle
grapevine leaf hopper
grapevine phylloxera
grapevine telegraph
grapevine thrips
graph paper
graphic accent
graphic account
graphic algebra
graphic art
graphic artist
graphic arts
graphic granite
graphic panel
graphic scale
graphic-texture
graphite steel
grapho-
grapier cement
grapnel plant
grappier cement
grapple bucket
grapple dredge
grapple fork
grapple ground
grapple iron
grapple plant
grapple shot
grapple with
grappling hook
grappling iron
grasp at a straw
grasp the meaning
grasping organ
grasping organs
grass bass
glass box
glass bur
glass carp
glass cattle
glass character
glass cloth
glass cold
glass comber
glass court
glass drake
glass earth
glass family
glass fern
glass finch
glass frog
glass green
glass guard
glass gum
glass hand
glass hockey
glass ill
glass lamb
glass land
glass lawn
glass lily
glass linen
glass mildew
glass moor
glass moth
glass owl
glass paper
glass parakeet
glass pea
glass pickerel
glass pink
glass plover
glass poly
glass pondweed
glass porgy
glass rockfish
glass roots
glass rug
glass sandwort
glass savanna
glass shears
glass skirt
grass snake
grass snipe
grass sorghum
grass spider
grass sponge
grass staggers
grass steppe
grass style
grass swine
grass table
grass tetany
grass tree
grass veld
grass vetch
grass warbler
grass webworm
grass widow
grass widower
grass wrack
grass-blade
grass-carpeted
grass-clad
grass-cloth
grass-cloth plant
grass-covered
grass-cushioned
grass-cutting
grass-eater
grass-eating
grass-embroidered
grass-fed
grass-green
grass-growing
grass-grown
grass-hook
grass-killing
grass-leaved
grass-mowing
grass-of-Parnassus
grass-plat
grass-roofed
grass-roots
grass-roots campaign
grass-roots movement
grass-tree
grass-tree gum
grass-woven
grass-wren
grasshopper engine
glasshopper escapement
glasshopper gauge
glasshopper lark
glasshopper lobster
glasshopper mouse
glasshopper sparrow
glasshopper warbler
glassland buttercup
glassland daisy
glassy-green
glassy-leaved
grate coal
grate on
grate room
grate surface
grate upon the ear
grated cheese
grateful dead
gratia dei
gratify yourself
gratuitous contract
gravamen of a charge
grave accent
grave as an undertaker
grave clothes
grave harmonic
grave injustice
grave marker
grave mixture
grave plant
grave robber
grave robbing
grave sin
grave wax
grave-born
grave-bound
grave-browed
grave-clothes
grave-colored
grave-digger
grave-digging
grave-faced
grave-looking
grave-riven
grave-robbing
grave-toned
grave-visaged
grave-wax
gravel chickweed
gravel plant
gravel road
gravel shooter
gravel train
gravel-bind
gravel-blind
gravel-blindness
gravel-grass
gravel-pit
gravel-stone
gravel-walk
graven image
graves' disease
graves's disease
graveside oration
gravestone cutter
graveyard shift
graveyard vote
graveyard watch
graveyard weed
gravi-
gravimetric analysis
graving dock
graving piece
graving tool
gravitate toward
gravitation battery
gravitation constant
gravitational astronomy
gravitational collapse
gravitational constant
gravitational field
gravitational interaction
gravitational mass
gravitational wave
gravity battery
gravity cell
gravity clock
gravity conveyer
gravity dam
gravity escapement
gravity fault
gravity feed
gravity hinge
gravity knife
gravity meter
gravity pendulum
gravity plane
gravity railroad
gravity stamp
gravity star
gravity ventilation
gravity wave
gravity wind
gravity-circulation
gravity-fed
gravity-operated railway
gravo-
gravure microscope
gravure press
gravy boat
gravy eye
gravy soup
gravy train
gray birch
gray body
gray colors and pigments
gray dogwood
gray duck
gray eminence
gray fox
gray goldenrod
gray goods
gray gum
gray hair
gray hairs
gray hen
gray iron
gray manganese ore
gray market
gray marketeer
gray matter
gray mold
gray mullet
gray of the evening
gray orchis
gray out
gray ox
gray parrot
gray pine
gray scale
gray sea eagle
gray skate
gray snapper
gray-toned
gray-twigged
gray-veined
gray-white
gray-winged
grayback beetle
grayback herring
graybeard tree
graying temples
grayish-brown
graylag goose
graze by
graze the surface
grazing country
grazing region
grease bucket
grease cup
grease extractor
grease gun
grease job
grease joint
grease mold
grease monkey
grease moth
grease nipple
grease paint
grease pit
grease rack
grease ring
grease the hand
grease the palm
grease the ways
grease the wheels
grease trap
grease wool
grease your palm
grease-heel
grease-heels
grease-nut
greased lightning
greasing of the wheels
greasy grind
greasy spoon
greasy-headed
great Neptune's ocean
great abundance
great ado
great age
great anteater
great ape
great auk
great barracuda
great basinet
great bear
great beauty
great big
great black-backed gull
great blue heron
great blue shark
great bunch grass
great bustard
great calorie
great cause
great circle
great compass
great cost
great council
great crested grebe
great dane
great deal
great distance
great divide
great doings
great doxology
great effort
great expectations
great foot
great friend
great fun
great go
great grandfather
great gray owl
great gross
great gun
great guns
great heart
great helm
great honor
great horned owl
great hundred
great lady
great laurel
great lobelia
great man
great mullein
great nettle
great northern diver
great octave
great of heart
great of soul
great one for
great organ
great pace
great pastern bone
great plenty
great point
great power
great pox
great price
great primer
great pyrenees
great ragweed
great reach
great reed
great respect
great rhododendron
great rosebay
great russian
great sallow
great satisfaction
great scale
great scope
great sea
great seal
great skua
great soil group
great soul
great success
great talker
great tit
great toe
great tuna
great unwashed, the
great value
great wheel
great white heron
great white shark
great white trillium
great wind
great with child
great with young
great work
great wrong
great year
great, the
great-
great-armed
great-aunt
great-bellied
great-boned
great-children
great-circle
great-circle chart
great-circle course
great-circle sailing
great-circle track
great-coat
great-crested
great-eared
great-eyed
great-footed
great-footed hawk
great-grand daughter
great-grand aunt
great-grandchild
great-grandchildren
great-granddaughter
great-grandfather
great-grandmother
great-grandnephew
great-grandniece
great-grandparent
great-grandson
great-granduncle
great-great-
great-grown
great-head
great-headed
great-hearted
great-hipped
great-leaved
great-lipped
great-minded
great-mindedly
great-mindedness
great-nephew
great-niece
great-nosed
great-sized
great-souled
great-sounding
great-spirited
green cheese
green cloth
green color
green copperas
green corn
green crab
green dragon
green earth
green fee
green fingers
green flash
green foxtail
green frog
green gland
green glass
green gold
green goods
green goose
green gram
green grass
green head
green heron
green in the eye
green lead ore
green leek
green light
green light
green man
green manure
green mint
green mold
green monkey
green mould
green mountain boy
green ocher
green oil
green old age
green onion
green osier
green paper
green pea
green pepper
green pigeon grass
green plover
green pound
green revolution
green rot
green salad
green salt
green sauce
green sea
green segment
green sickness
green snake
green soap
green strength
green stuff
green tea
green thumb
green turtle
green valley-grass
green vegetable
green vegetables
green verditer
green vitriol
green wattle
green way
green with envy
green with jealousy
green woodpecker
green-back herring
green-back trout
green-backed
green-backed goldfinch
green-bag
green-banded
green-barked
green-barked acacia
green-belt
green-black
green-blind
green-blue
green-bodied
green-boled
green-bordered
green-bottle fly
green-boughed
green-breasted
green-breasted pheasant
green-clad
green-crested
green-cross gas
green-cross shell
green-curtained
green-decked
green-ear disease
green-edged
green-embroidered
green-eyed
green-eyed jealousy
green-eyed monster
green-faced
green-feathered
green-fish
green-flowered
green-fly
green-fringed
green-garbed
green-gilled
green-glazed
green-gold
green-gray
green-grown
green-haired
green-headed
green-headed widgeon
green-house
green-hued
green-leaved
green-legged
green-mantled
green-peak
green-recessed
green-ribbed
green-room
green-rotted
green-salted
green-sand
green-seeded
green-shaving
green-sheathed
green-shining
green-skinned
green-sleeves
green-stained
green-stone
green-striped
green-suited
green-tail
green-tail fly
green-tailed
green-throated
green-tinted
green-tip spray
green-tipped
green-tined
green-veined
green-winged
green-winged teal
green-yard
green-yellow
greenbottle fly
greenhouse effect
greenhouse stone cricket
greenhouse thrips
greening weed
greenish-blue
greenish-flowered
greenish-yellow
greens fee
greensand process
greenstick fracture
greenwich time
greet the day
greet with a kiss
greet with skepticism
greeting card
gregorian calendar
gregorian chant
gregory-powder
grenade launcher
grenadine pink
grenadine red
grenz ray
gresham's law
gretta green
grey area
grey eminence
grey fox
grey friar
grey goose
grey heron
grey lag
grey market
grey matter
grey mullet
grey plover
grey squirrel
grey whale
grey wolf
grey-back
grey-cheeked
grey-coat
grey-eyed morn
grey-headed
grey-hen
grey-state
greyhound racing
greylag goose
grid battery
grid bias
grid capacitor
grid circuit
grid condenser
grid conductance
grid current
grid declination
grid emission
grid leak
grid line
grid metal
grid modulation
grid road
grid variation
grid voltage
grid-bias battery
grid-dip meter
grid-dip oscillator
grid-glow tube
grid-seal tube
gridle cake
gridle valve
gridiron drainage
gridiron pendulum
gridiron valve
gridiron-tailed lizard
grief dulled
grief oppressed
grief-bowed
grief-distraught
grief-exhausted
grief-inspired
grief-scored
grief-shot
grief-stricken
grief-worn
grievance committee
grieve for
grieve over
grieve with
grievous bodily harm
griaffe
griffin-beaked
griffin-guarded
griffin-winged
giffon vulture
giffon-vulture
grigri man
gilled cheese sandwich
grim reality
grim reaper
grim-cheeked
grim-eyed
grim-faced
grim-featured
grim-frowning
grim-grinning
grim-looking
grim-set
grim-visaged
grinace at
grimm's law
grimy-handed
grin and abide
grin and bear it
grin at
grin like a Cheshire cat
grin like a chessey-cat
grind down
grind on
grind organ
grind to dust
grind to powder
grind whale
grind your teeth
grindery warehouse
grinding halt
grinding mill
grinding organ
grinding pain
grinding poverty
grinding stone
grinding wheel
grindle stone
griming skull
grin block
grin car
grin of steel
grip sheave
grip tape
grip wheel
gripe piece
gripe water
gripe's egg
gripping instrument
gripping instruments
gripple-handed
gris-amber
gris-de-lin
gris-gris
grist to the mill
grist to your mill
grit cell
grit your teeth
grizzly bear
grizzly-bear cactus
groaning board
groaning cake
groaning chair
groans of roaring wind and rain
grocery store
grog blossom
grog lifter
groin point
groin rib
groin vault
grommet nut
groo-groo
groom's cake
groom-porter
groove board
groove on
groove-billed
grooving plane
grooving saw
grope for
grope in the dark
gros de Londres
gros de Tours
gros de naples
gros grain
gros point
gros points
gros tournois
gross amount
gross behavior
gross body
gross credulity
gross domestic product
gross falsehood
gross ignorance
gross income
gross injustice
gross interest
gross lift
gross national product
gross out
gross profit
gross receipts
gross register ton
gross register tonnage
gross ton
gross tonnage
gross up
gross weight
gross-beak
gross-bodied
gross-brained
gross-featured
gross-fed
gross-headed
gross-jawed
gross-lived
gross-mannered
gross-minded
gross-money
gross-money pool
gross-natured
gross-pated
gross-witted
grossly overpriced
grotto blue
ground alert
ground almond
ground angling
ground annual
ground annualer
ground ash
ground bait
ground ball
ground bass
ground beam
ground beef
ground beetle
ground birch
ground box
ground bridge
ground bundle
ground burnut
ground cable
ground cedar
ground centaury
ground chain
ground cherry
ground chestnut
ground chuck
ground circuit
ground cistus
ground clamp
ground cloth
ground clutter
ground coat
ground cock
ground color
ground combat
ground connection
ground control
ground control of aircraft
ground cover
ground crew
ground cricket
ground cuckoo
ground current
ground cypress
ground detector
ground dove
ground down
ground effect machine
ground elder
ground elevation
ground fern
ground finch
ground fir
ground fire
ground flax
ground flea
ground floor
ground fog
ground forces
ground form
ground game
ground gas
ground glass
ground gold-flower
ground goldenrod
ground goldflower
ground grue
ground hard and fast
ground hemlock
ground hog
ground holly
ground honeysuckle
ground ice
ground itch
ground ivory flower
ground ivy
ground jasmine
ground joist
ground juniper
ground lag
ground landlord
ground lark
ground laurel
ground layer
ground lead
ground lease
ground lemon
ground level
ground lily
ground line
ground liverwort
ground lizard
ground log
ground loop
ground mahogany
ground mail
ground mallow
ground maple
ground meristem
ground mine
ground mold
ground moss
ground net
ground noise
ground note
ground oak
ground observer
ground on
ground out
ground owl
ground parakeet
ground parrot
ground pea
ground pearl
ground pig
ground pigeon
ground pike
ground pine
ground pink
ground pistachio
ground plan
ground plane
ground plate
ground plum
ground provisions
ground puppy
ground radar
ground raspberry
ground rat
ground rattan
ground rattler
ground rent
ground rent insurance
ground robin
ground roller
ground rope
ground round
ground row
ground rule
ground rules
ground saligot
ground school
ground sea
ground seal
ground shark
ground shield
ground skidder
ground sloth
ground sluice
ground snake
ground sparrow
ground speed
ground squirrel
ground staff
ground starling
ground state
ground strike
ground stroke
ground substance
ground sweet
ground swell
ground table
ground tackle
ground test
ground tester
ground thistle
ground thrush
ground tier
ground timbers
ground tissue
ground tit
ground tone
ground tow
ground track
ground troops
ground vine
ground warbler
ground water
ground wave
ground ways
ground willow
ground wire
ground worm
ground wren
ground yew
ground your arms
ground zero
ground-ash
ground-attack fighter
ground-bait
ground-bird
ground-cherry
ground-control approach
ground-controlled approach
ground-down
ground-effect machine
ground-fast
ground-floor
ground-hog
ground-hog day
ground-ice
ground-ivy
ground-line
ground-man
ground-nut
ground-pea
ground-pine
ground-plan
group rate
group relations training
group representation
group sensitivity training
group shot
group test
group theory
group therapy
group velocity
group will
group with operators
group work
group-connect
group-conscious
grouper pea
groups of languages
grouse disease
grouse locust
grout box
grout-head
grountlock brick
grove mast
grove palm
grove spar
grove tree
grow better
grow bright
grow cold
grow dark
grow dim
grow fat
grow from
grow hair
grow into
grow larger
grow light
grow like a weed
grow lush
grow old
grow on
grow on one
grow out of
grow over
grow pale
grow rank
grow red
grow rich
grow thick
grudging consent
grudging thanks
grugru beetle
grugru grub
grugru nut
grugru palm
grugru worm
grundy-swallow
grunt and sweat
grunting ox
grundy-swallow
grun
guard against
guard band
guard boat
guard book
guard brush
guard cartridge
guard cell
guard chamber
guard dog
guard duty
guard flag
guard hair
guard line
guard lock
guard mount
guard mounting
guard of honor
guard pin
guard plate
guard report
guard ring
guard room
guard ship
guard wire
guard your honor
guard's van
guard-boat
guard-fish
guard-house
guard-rail
guard-room
guard-ship
guarda-costa
guarded secret
guardhouse lawyer
guardian ad litem
guardian angel
guardian spirit
guardroom table
guava apple
guayabera shirt
guayule rubber
gucki grand
gucki nullo
gudgeon pin
guelder rose
guelder-rose
guerre a mort
guerre a outrance
guerre de plume
guerrilla tactics
guerrilla theater
guerrilla warfare
guess right
guess-rope
guess-warp
guess-work
guest flag
guest house
guest of honor
guest pass
guest right
guest room
guest rope
guest ticket
guinea cock
guinea flower
guinea fowl
guinea gold
guinea goose
guinea grains
guinea grass
guinea hen
guinea pepper
guinea pig
guinea rush
guinea sorrel
guinea trade
guinea worm
guinea-cock
guinea-fowl
guinea-hen
guinea-hen flower
guinea-hen weed
guinea-man
guinea-pea
guinea-pig
guipure lace
guise dancer
guit-guit
guitar fiddle
guitar mandolin
guitar plant
guitar wood
guitar-picker
guitar-shaped
gulf rupee
gulf stream
gulf-weed
gull chaser
gull grass
gull gray
gull teaser
gull wing
gull-billed
gull-like
gull-wing
gullet plate
gullet worm
gulleting file
gullible person
gully erosion
gully knife
gully root
gully washer
gully-raker
gulp down
gulper eel
gum acacia
gum acaroides
gum accroides
gum acid
gum acroides
gum aloes
gum ammoniac
gum angico
gum anime
gum animi
gum arabic
gum archipin
gum benjamin
gum benzoin
gum boot
gum bush
gum butea
gum camphor
gum cistus
gum copal
gum dammar
gum disease
gum dragon
gum duct
gum elastic
gum elemi
gum euphorbium
gum flux
gum foam
gum galbanum
gum gattie
gum guaiac
gum guaiacam
gum guaiacum
gum guttae
gum hashab
gum juniper
gum kauri
gum kino
gum labdanum
gum mastic
gum mogador
gum myrrh
gum nut
gum olibanum
gum opoponax
gum plant
gum pocket
gum rash
gum resin
gum resins
gum rosin
gum sagapenum
gum sandarac
gum savakin
gum shellac
gum shiraz
gum silk
gum soap
gum spirit
gum spirits
gum spot
gum stick
gum storax
gum succory
gum sugar
gum thus
gum tragacanth
gum tree
gum turpentine
gum up
gum up the works
gum water
gum-bichromate
gum-dichromate
gum-gum
gum-lac
gum-lac insect
gum-myrtle
gum-resinous
gum-saline
gum-shrub
gum-top
gum-top tree
gum-tree
gumbo grass
gumbo lily
gumbo limbo
gumbo soil
gumbo-limbo
gumbo-limbos
gun tackle
gun-barrel lathe
gun-boat
gun-carrying
gun-cleaning
gun-cotten
gun-deck
gun-directing radar
gun-equipped
gun-man
gun-metal
gun-metal gray
gun-mounted
gun-rivet
gun-room
gun-shot
gun-shy
gun-shyness
gun-stock
gun-testing
gun-toting
gunboat diplomacy
gunboat system
gunebo lily
gung ho
gung-ho
gunk hole
gunnery mission
gunnery oficer
gunnery sergeant
gunny bag
gunny cloth
gunny sack
gunny-bag
gunong api
gunpowder hammer
gunpowder tea
guns and launchers
gunstock stile
gunter iron
gunter lug
gunter rig
gunter's chain
gurgeon stopper
gurgina balsam
guri bori
gurjun balsam
guru nut
gush out
gush over
gushing rain
gusset plate
gusset stay
gussied up
gussy up
gustatory cell
gustatory delightfulness
gut course
gut reaction
gut response
gut spinner
gut with fire
gut-ache
gute Nacht
guten Abend
guten Morgen
guten Tag
gutless wonder
gutta balata
gutta dujan
gutta gamba
gutta gerip
gutta hangkang
gutta jangkar
gutta jelutong
gutta ketapang
gutta percha
gutta puan
gutta rosacea
gutta rosea
gutta sangei
gutta semarum
gutta serena
gutta siak
gutta singarip
gutta soh
gutta sundek
gutta sundik
gutta susu
gutta taban puteh
gutta-gum
gutta-gum tree
gutta-percha
guttae band
gutter press
gutter stick
gutter tree
gutter-blood
gutter-bred
gutter-grubbing
gutter-snipe
guttering trowel
gutturo-
guy cap
guy fawkes day
guy rope
gy-
gyle-fat
gym pants
gym shoe
gym shoes
gym suit
gymm-
gymnastic exercises
gyno-
gyn-
gynaeco-
gynandro-
gynec-
gyneco-
gyno-
gynocardia oil
gyp artist
gyp joint
gyp-room
gypsum burner
gypsum pink
gypsum plaster
gypsy capstan
gypsy moth
gypsy scale
gypsy setting
gypsy winch
gypsy-like
gyr-
gyre carline
gyre carling
gyre upward
gyring up
gyro horizon
gyro mechanism
gyro pelorus
gyro repeater
gyro-
gyromagnetic ratio
gyroscopic compass
gyroscopic pilot
gyroscopic stabilizer
gyrostatic compass
h and c
h-bar
h-bomb
ha ha
ha-Nasi
ha-ha
hab-nab
habeas corpora
habeas corpus
habeas corpus ad prosequendum
habeas corpus ad subiciendum
habeas corpus ad testificandum
habeas corpus cum causa
habere facias possessionem
habere facias seisinam
habit pattern
habit shirt
habit spasm
habit-forming
habitat form
habitat group
habitual criminal
habitual drunkenness
habitual liar
habitual offender
habitual smoking
hack board
hack file
hack hammer
hack house
hack it
hack out a deal
hack saw
hack watch
hack writer
hack-
hack-me-tack
hack-work
hacking coat
hacking jacket
hacking knife
hacking out a deal
hackle fly
hackney carriage
hackney chair
hackney coach
hackney pony
hackney-carriage
hackney-chair
hackney-coach
hackney-man
hackneyed expression
hackneyed saying
hacksaw fern
had best
had better
had it
had rather
haem-
haema-
haemat-
haemato-
haemato-crystallin
haemato-globulin
haemo-
haemorrhagic measles
hag clog
hag moth
hag-boat
hag-ridden
hag-taper
hagi-
hagio-
haikwan tael
hail and speak
hail fellow
hail from
hail insurance
hail mary
hail-fellow
hail-fellow well met
hail-fellow-well-met
hail-shot
hailing distance
hair ball
hair bleacher
hair braid
hair bramble
hair brown
hair cap moss
hair carder
hair cell
hair clipper
hair color
hair compass
hair crimper
hair curler
hair drawer
hair dye
hair dyeing
hair dryer
hair eel
hair fern
hair follicle
hair glove
hair grass
hair grip
hair hygrometer
hair kiln
hair lacquer
hair mattress
hair moss
hair moth
hair net
hair of the dog
hair of the dog that bit one
hair of the dog that bit you
hair oil
hair orchid
hair palm
hair pencil
hair powder
hair pyrites
hair remover
hair restorer
hair ribbon
hair salt
hair seal
hair sheep
hair shirt
hair sieve
hair slide
hair snake
hair sofa
hair sorter
hair space
hair straightener
hair stroke
hair stylist
hair tonic
hair trigger
hair trunk
hair wash
hair washer
hair waver
hair's-breadth
hair-branch tree
hair-check
hair-checking
hair-drawn
hair-drier
hair-fibered
hair-grass
hair-lace
hair-line
hair-lip
hair-powder
hair-raise
hair-raising
hair-shirt
hair-sieve
hair-splitter
hair-splitting
hair-stemmed
hair-streak
hair-stroke
hair-trigger
hair-waving
hair-worm
hairbreadth escape
hairbrush cactus
haircap moss
hairpin bend
hairpin megaron
hairpin turn
hairs-breadth
hairy frog
hairy heart
hairy vetch
hairy wattle
hairy willowherb
hairy woodpecker
hairy-armed
hairy-chested
hairy-clad
hairy-dog story
hairy-eared
hairy-faced
hairy-foot
hairy-footed
hairy-fruited
hairy-handed
hairy-headed
hairy-legged
hairy-looking
hairy-skinned
hairy-tailed mole
hairytail mole
hal-
halade mystai
halberd fern
halberd-headed
halberd-leaved
halberd-shaped
halcyon bird
halcyon days
hale and hearty
hale bind
hale into court
hale old age
hale water
hale-nut
half G
half Wellington
half a C
half a chance
half a dozen
half a gale
half a hundred
half a jiffy
half a mo
half a second
half a shake
half after
half an eye
half an idea
half anatropous
half angel
half armor
half asleep
half ball
half aunt
half believe
half binding
half bird
half bishop
half block
half blood
half board
half boot
half boots
half brau
half broad
half brother
half bull
half butt
half cadence
half cent
half chronometer
half circle
half close
half cloth
half cock
half column
half cone
half court
half cousin
half cross stitch
half crown
half curlew
half cushion
half davit
half deck
half dime
half diphthong
half dollar
half eagle
half facet
half frame
half gainer
half galley
half gerund
half grand
half header
half hitch
half holiday
half hose
half hour
half hunter
half island
half joe
half landing
half large
half leather
half life
half line
half mask
half measure
half measures
half mile
half model
half mourning
half nelson
half nephew
half niece
half noble
half note
half nut
half past
half pay
half pint
half plane
half points
half port
half principal
half rations
half ray
half relief
half rest
half rhyne
half ring
half ripsaw
half royal
half rupee
half scholar
half seal
half seas over
half sheave
half shell
half shirt
half shoe
half sir
half sister
half size
half small
half snipe
half sol
half sole
half sovereign
half space
half speed
half step
half stitch
half stock
half story
half stuff
half term
half tide
half timber
half time
half tint
half title
half tone
half trap
half twist
half uncial
half uncle
half volley
half vowel
half year
half-
half-American
half-Americanized
half-Anglicized
half-Aristotelian
half-Asian
half-Asiatic
half-Beaufort scale
half-Christian
half-Confederate
half-Creole
half-Dacron
half-Elizabethan
half-English
half-French
half-German
half-Greek
half-Hessian
half-Irish
half-Italian
half-Latinized
half-Mexican
half-Mohammedan
half-Moslem
half-Muhammadan
half-Muslim
half-Russian
half-Scottish
half-Semitic
half-Shakespearean
half-Spanish
half-a-crown
half-a-dollar
half-abandoned
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-afloat
half-afraid
half-agreed
half-alike
half-alive
half-altered
half-and-half
half-and-half measures
half-angrily
half-angry
half-annoyed
half-annoying
half-annoyingly
half-ape
half-armed
half-armor
half-ashamed
half-ashamedly
half-asleep
half-assed
half-awake
half-backed
half-baked
half-bald
half-ball
half-banked
half-baptize
half-barbarian
half-bare
half-barrel
half-beak
half-beam
half-begging
half-begun
half-belief
half-believed
half-believing
half-bent
half-binding
half-bleached
half-blind
half-blind joint
half-blindly
half-blood
half-blooded
half-blown
half-blue
half-board
half-boiled
half-boiling
half-boot
half-bound
half-bowl
half-breadth plan
half-bred
half-breed
half-brilliant cut
half-broken
half-brother
half-buried
half-burned
half-burning
half-bushel
half-butt
half-calf
half-cap
half-carried
half-caste
half-cell
half-cent
half-centuries
half-century
half-chanted
half-cheek
half-civil
half-civilized
half-civilly
half-clad
half-cleaned
half-clear
half-clearly
half-climbing
half-closed
half-closing
half-clothed
half-coaxing
half-coaxingly
half-cock
half-cocked
half-colored
half-completed
half-concealed
half-concealing
half-confessed
half-congealed
half-conquered
half-conscious
half-consciously
half-conservative
half-conservatively
half-consonant
half-consumed
half-consummated
half-contemptuous
half-contemptuously
half-contented
half-contentedly
half-convicted
half-convinced
half-convincing
half-convincingly
half-cooked
half-cordate
half-corrected
half-cotton
half-counted
half-courtline
half-cousin
half-covered
half-cracked
half-crazed
half-crazy
half-critical
half-critically
half-crown
half-crumbled
half-crumbling
half-cured
half-cut
half-dark
half-day
half-dazed
half-dead
half-dead escapement
half-deaf
half-deafened
half-deafening
half-decade
half-deck
half-decked
half-decker
half-defiant
half-defiantly
half-deified
half-demented
half-democratic
half-demolished
half-denuded
half-deprecating
half-deprecatingly
half-deserved
half-deservedly
half-destroyed
half-developed
half-digested
half-dime
half-discriminated
half-discriminating
half-disposed
half-divine
half-divinely
half-dollar
half-done
half-door
half-dozen
half-dram
half-dressed
half-dressedness
half-dried
half-drowned
half-drowning
half-drunk
half-drunken
half-dug
half-dying
half-eagle
half-earnest
half-earnestly
half-eaten
half-ebb
half-educated
half-embraced
half-embracing
half-embracingly
half-enamored
half-enforced
half-erased
half-evaporated
half-evaporating
half-evergreen
half-expectant
half-expectantly
half-exploited
half-exposed
half-face
half-face view
half-faced
half-false
half-famished
half-farthing
half-fascinated
half-fascinating
half-fascinatingly
half-fed
half-feminine
half-fertile
half-fertilely
half-fictitious
half-fictitiously
half-filled
half-finished
half-firkin
half-fish
half-flattered
half-flattering
half-flatteringly
half-flood
half-florin
half-folded
half-foot
half-forgiven
half-forgotten
half-formed
half-forward
half-frowning
half-frowningly
half-frozen
half-fulfilled
half-fulfilling
half-full
half-furnished
half-gallon
half-gill
half-god
half-great
half-grown
half-guinea
half-hard
half-hardy
half-harvested
half-headed
half-healed
half-heard
half-hearted
half-heathen
half-hidden
half-hitch
half-holiday
half-hollow
half-horse
half-hour
half-hour glass
half-hourly
half-human
half-hungered
half-hunter
half-hypnotized
half-imperial
half-important
half-importantly
half-inch
half-inclined
half-indignant
half-indignantly
half-inferior
half-informed
half-informing
half-informingly
half-ingenious
half-ingeniously
half-ingenuous
half-ingenuously
half-inherited
half-insinuated
half-insinuating
half-insinuatingly
half-instinctive
half-instinctively
half-intellectual
half-intellectually
half-intelligible
half-intelligibly
half-intoned
half-intoxicated
half-invalid
half-invalidly
half-iron
half-island
half-jack
half-jelled
half-joking
half-jokingly
half-justified
half-knot
half-know
half-languaged
half-languishing
half-lap joint
half-lapped
half-lattice girder
half-latticed
half-learned
half-learnedly
half-learning
half-leather
half-left
half-length
half-liberal
half-liberally
half-life
half-life period
half-light
half-lined
half-linen
half-liter
half-lived
half-lives
half-long
half-looper
half-lop
half-lunatic
half-lunged
half-mad
half-made
half-madly
half-madness
half-marked
half-marrow
half-mast
half-masticated
half-matured
half-meant
half-measure
half-melted
half-mental
half-mentally
half-merited
half-miler
half-minded
half-minute
half-minute glass
half-miseducated
half-misunderstood
half-mitten
half-monitor
half-monthly
half-moon
half-moral
half-mourning
half-mumbled
half-mummified
half-naked
half-nelson
half-nephew
half-niece
half-noble
half-normal
half-normally
half-note
half-numb
half-nylon
half-obliterated
half-offended
half-on
half-one
half-open
half-opened
half-oriental
half-orphan
half-oval
half-oxidized
half-pace
half-pay
half-peck
half-petrified
half-pike
half-pint
half-pipe
half-pitch
half-plane
half-plate
half-playful
half-playfully
half-pleased
half-pleasing
half-plucked
half-port
half-pound
half-pounder
half-praised
half-praising
half-present
half-price
half-profane
half-professed
half-profile
half-proletarian
half-protested
half-protesting
half-proved
half-proven
half-provocative
half-quarter
half-quarter
half-quarterpace
half-questioning
half-questioningly
half-quire
half-quixotic
half-quixotically
half-radical
half-radically
half-rater
half-rayon
half-reactionary
half-read
half-reasonable
half-reasonably
half-reasoning
half-rebellious
half-rebelliously
half-reclaimed
half-reclined
half-reclining
half-refined
half-regained
half-reluctant
half-reluctantly
half-remonstrant
half-repentant
half-republican
half-retinal
half-revealed
half-reversed
half-rhyme
half-right
half-ripe
half-ripened
half-roasted
half-rod
half-romantic
half-romantically
half-rotted
half-rotten
half-round
half-round file
half-rueful
half-ruefully
half-ruined
half-run
half-russia
half-sagittate
half-savage
half-savagely
half-saved
half-seal
half-seas over
half-seas-over
half-second
half-section
half-seen
half-sensed
half-serious
half-seriously
half-severed
half-shade
half-shamed
half-share
half-shared
half-sheathed
half-shoddy
half-shot
half-shouted
half-shroud
half-shrub
half-shrubby
half-shut
half-shy
half-shyly
half-sib
half-sibling
half-sighted
half-sightly
half-sightedness
half-silk
half-sinking
half-sister
half-size
half-sleeve
half-sleeved
half-slip
half-smile
half-smiling
half-smilingly
half-smothered
half-snipe
half-sole
half-soled
half-solid
half-soling
half-souled
half-sovereign
half-spoonful
half-spun
half-squadron
half-staff
half-starved
half-starving
half-step
half-sterile
half-stock
half-stocking
half-stopped
half-strain
half-strained
half-stroke
half-strong
half-stuff
half-subdued
half-submerged
half-successful
half-successfully
half-succulent
half-suit
half-sung
half-sunk
half-sunken
half-swing
half-sword
half-syllabled
half-taught
half-tearful
half-tearfully
half-teaspoonful
half-tented
half-terete
half-term
half-theatrical
half-thickness
half-thought
half-tide
half-tide dock
half-timber
half-timbered
half-time
half-time intermission
half-timer
half-title
half-title page
half-tone
half-tongue
half-track
half-tracked
half-trained
half-training
half-translated
half-true
half-truth
half-truths
half-turn
half-turn stair
half-turned
half-turning
half-understood
half-undone
half-used
half-utilized
half-value layer
half-veiled
half-vellum
half-verified
half-vexed
half-visibility
half-visible
half-volley
half-volleyed
half-volleyer
half-volleying
half-vowelish
half-waking
half-wave rectification
half-wave rectifier
half-way
half-whispered
half-whisperingly
half-white
half-wicket
half-wild
half-wildly
half-willful
half-willfully
half-winged
half-wit
half-witted
half-wittedly
half-wittedness
half-womanly
half-won
half-woolen
half-word
half-world
half-worsted
half-woven
half-written
half-year
half-yearly
halfhead bedstead
halfhearted thanks
halfpenny post
halftone engraving
halfway covenant
halfway file
halfway house
halfway in the middle
halfway mark
halfway measures
halfway place
halfway point
halfway station
halibut-liver oil
haling hands
hall bedroom
hall of residence
hall stand
hall tree
hall-door
hall-mark
hall-of-famer
hallelujah meter
hallow-e'en
hallow-tide
hallowed be Thy Name
hallucinatory painting
hallux valgus
halo blight
halo spot
halo-
halo-bright
halo-crowned
halo-girt
halogen gas
halter-sack
halter-wise
halting meters
halve together
ham actor
ham and eggs
ham it up
ham operator
ham rig
ham sandwich
ham shack
ham station
ham steak
ham transmitter
ham-fisted
ham-handed
ham-handedness
hamadryas baboon
hamber line
hamber-line
hamburg steak
hamburger stand
hame tug
hamitic languages
hamito-semitic
hamito-semitic languages
hammer and sickle
hammer and tongs
hammer at
hammer away
hammer away at
hammer ax
hammer beam
hammer blow
hammer break
hammer butt
hammer cap
hammer crane
hammer drill
hammer dulcimer
hammer gun
hammer into your head
hammer lock
hammer maker
hammer mill
hammer molding
hammer out
hammer out a deal
hammer oyster
hammer pick
hammer pike
hammer pond
hammer price
hammer rail
hammer scale
hammer sedge
hammer shank
hammer shell
hammer slag
hammer spring
hammer tail
hammer throw
hammer thrower
hammer throwing
hammer tongs
hammer welding
hammer-beam
hammer-cloth
hammer-hard
hammer-harden
hammer-head
hammer-proof
hammer-refined
hammer-shaped
hammer-strong
hammer-weld
hammer-welded
hammer-wrought
hammered work
hammerhead shark
hammerheaded shark
hammering glass
hammering out a deal
hamming up
hammock batten
hammock berthing
hammock clew
hammock cloth
hammock netting
hammy acting
hance arch
hancing piece
hand a sail
hand alphabet
hand and foot
hand and glove
hand ax
hand baggage
hand bell
hand blocker
hand brake
hand brush
hand camera
hand cannon
hand cheese
hand clapping
hand cleaner
hand composition
hand cream
hand director
hand down
hand drill
hand driller
hand dynamometer
hand embroidery
hand feeder
hand firer
hand fishing
hand flail
hand for hand
hand forward
hand gallop
hand gear
hand glass
hand goniometer
hand graver
hand grenade
hand guard
hand gun
hand hoe
hand hoer
hand hook
hand horn
hand in
hand in glove
hand in hand
hand in your checks
hand in your chips
hand in your resignation
hand infection
hand iron
hand ironer
hand it to
hand job
hand knitter
hand labor
hand laborer
hand language
hand laundry
hand lead
hand lens
hand letter
hand level
hand line
hand list
hand log
hand loom
hand lotion
hand luggage
hand mast
hand mill
hand miller
hand milling machine
hand miner
hand mirror
hand mixer
hand molder
hand money
hand mule
hand of death
hand of friendship
hand of glory
hand of writ
hand off
hand on
hand orchis
hand organ
hand out
hand over
hand over fist
hand over hand
hand over head
hand over your sword
hand paper
hand pitching
hand planer
hand plant
hand plate
hand play
hand plow
hand polisher
hand press
hand print
hand promise
hand pump
hand pumper
hand punch
hand riveter
hand roller
hand rope
hand running
hand screw
hand scroll
hand set
hand sewer
hand signal
hand spar
hand spinning
hand splicer
hand stitcher
hand sweep
hand tap
hand tight
hand tissue
hand to hand
hand to mouth
hand tool
hand tooling
hand towel
hand tree
hand trimmer
hand truck
hand turner
hand up an indictment
hand vote
hand weaver
hand weeder
hand worker
hand your name down to posterity
hand's turn
hand's-breadth
hand-ax
hand-ball
hand-barrow
hand-beaten
hand-blocked
hand-blown
hand-bound
hand-broad
hand-broken
hand-built
hand-canter
hand-carry
hand-cart
hand-carve
hand-chase
hand-churn drill
hand-clasp
hand-clean
hand-closed
hand-colored
hand-comb
hand-crushed
hand-culverin
hand-cut
hand-dress
hand-drill
hand-drop
hand-dug
hand-embroidered
hand-fed
hand-feed
hand-feeding
hand-fill
hand-filled
hand-fire
hand-fives
hand-fold
hand-footed
hand-glass
hand-grenade
hand-habend
hand-held
hand-hewn
hand-hidden
hand-high
hand-in
hand-in-glove
hand-in-hand
hand-knit
hand-knitted
hand-knitting
hand-knotted
hand-labour
hand-lettered
hand-line
hand-liner
hand-list
hand-loom
hand-APPED
hand-made
hand-me-down
hand-me-downs
hand-mill
hand-minded
hand-mindedness
hand-mix
hand-mold
hand-off
hand-operated
hand-organist
hand-out
hand-packed
hand-pick
hand-picked
hand-pitched
hand-play
hand-pollinate
hand-pollination
hand-power
hand-presser
hand-pressman
hand-printing
hand-pump
hand-rail
hand-rear
hand-reared
hand-rinse
hand-rivet
hand-roll
hand-rub
hand-rubbed
hand-sent
hand-sew
hand-sewn
hand-shackled
hand-sort
hand-splice
hand-split
hand-spun
hand-staff
hand-stamp
hand-stamped
hand-stitch
hand-stuff
hand-tailor
hand-tailored
hand-taut
hand-thrown
hand-tied
hand-tight
hand-to-hand
hand-to-hand combat
hand-to-hand fight
hand-to-mouth
hand-to-mouth existence
hand-tooled
hand-treat
hand-trim
hand-turn
hand-vice
hand-wash
hand-weave
hand-weed
hand-worked
hand-woven
hand-wrist
hand-wrought
handed down
handflower tree
handful of thumbs
handicap race
handicapped person
handicapped, the
handicraft economy
handie-talkie
handing over
handkerchief table
handle bar
handle bars
handle blank
handle it just right
handle to your name
handle with gloves
handle with kid gloves
handle with velvet gloves
handle yourself
handle yourself well
handle-bar mustache
handlebar moustache
handmaid moth
handrail bolt
hands down
hands of
hands-down
hands-off
hands-off policy
handsome fortune
handsome-featured
handwriting expert
handwriting on the wall
handy at
handy man
handy-andies
handy-andy
handy-billy
handy-dandy
handy-pandy
handy-spandy
hang about
hang about at
hang around
hang around at
hang around with
hang back
hang behind
hang by a thread
hang by the eyelids
hang by the neck
hang crepe
hang down
hang fire
hang glider
hang heavy on your hands
hang in
hang in doubt
hang in effigy
hang in space
hang in suspense
hang in the balance
hang in there
hang it
hang like a millstone
hang net
hang off
hang on
hang on for dear life
hang on like a bulldog
hang on like a leech
hang on the lips
hang on the lips of
hang on the skirts of
hang on the sleeve of
hang on to
hang on your words
hang one on
hang open
hang out
hang out at
hang out with
hang out your shingle
hang over
hang over your head
hang something on
hang the expense
hang the jury
hang together
hang tough
hang up
hang up your hat
hang up your shingle
hang up your spurs
hang upon
hang upon the skirts of
hang your head
hang your lip
hang-
hang-back
hang-by
hang-choice
hang-dog
hang-down
hang-fair
hang-glider
hang-head
hang-nail
hang-over
hang-up
hangdog look
hanger board
hanger bolt
hanger-back
hanger-on
hanger-up
hangers-on
hanging buttress
hanging by a thread
hanging compass
hanging fixture
hanging gardens
hanging indentation
hanging lie
hanging on
hanging out
hanging over your head
hanging post
hanging rail
hanging scroll
hanging step
hanging stile
hanging valley
hanging wall
hanging-drop culture
hangman's hands
hangman's knot
hangman's rope
hank-type antenna
hanker after
hankey-pankey
hanky-panky
hanse house
hansen's disease
hansom cab
hapax legomena
hapax legomenon
hapl-
haplo-
haploid number
happen along
happen as expected
happen by
happen by chance
happen on
happen over and over
happen to be
happen together
happen upon
happen what may
happy as a baby boy
happy as a clam at high water
happy as a king
happy as a lark
happy as the day is long
happy chance
happy expectation
happy family
happy fortune
happy hour
happy hunting ground
happy landing
happy medium
happy thought
happy warrior
happy-go-luckiness
happy-go-lucky
happy-go-luckyism
hara-kin
hara-kiri
harbinger-of-spring
harbingers-of-spring
harbor a design
harbor a feeling
harbor an idea
harbor deck
harbor doubts
harbor due
harbor furl
harbor gasket
harbor log
harbor master
harbor of refuge
harbor pilot
harbor porpoise
harbor resentment
harbor revenge
harbor seal
harbor stow
harbor suspicions
harbor the hope
harbor watch
harbour master
harbour seal
hard alee
hard and fast
hard and fast rule
hard aport
hard as a rock
hard as nails
hard astarboard
hard at it
hard at work
hard aweather
hard bargain
hard binding
hard blow
hard book
hard bop
hard by
hard candy
hard cash
hard chancre
hard cheese
hard cider
hard clam
hard coal
hard copy
hard core
hard court
hard currency
hard dinkum
hard paste
hard pinch
hard pressed
hard pull
hard put
hard put to it
hard resin
hard resins
hard road to travel
hard rock
hard roe
hard roll
hard row of stumps
hard row to hoe
hard rubber
hard sauce
hard sell
hard shadow
hard shell
hard shoulder
hard sign
hard solder
hard stuff
hard tick
hard times
hard to believe
hard to please
hard to understand
hard tube
hard up
hard upon
hard usage
hard use
hard water
hard weather
hard wheat
hard winter
hard word
hard words
hard work
hard-acquired
hard-and-fast
hard-and-fastness
hard-bake
hard-baked
hard-barked
hard-beating
hard-bill
hard-billed
hard-biting
hard-bitted
hard-bitten
hard-bittenness
hard-boil
hard-boiled
hard-boiledness
hard-boned
hard-bought
hard-bred
hard-coated
hard-contested
hard-cooked
hard-core
hard-core pornography
hard-cover book
hard-cured
hard-drawn
hard-dried
hard-drinking
hard-driven
hard-driving
hard-drying
hard-earned
hard-edge
hard-edged
hard-eyed
hard-faced
hard-fated
hard-favored
hard-favoredness
hard-favoured
hard-favouredness
hard-feathered
hard-featured
hard-featuredness
hard-fed
hard-fighting
hard-finished
hard-fired
hard-fisted
hard-fistedness
hard-fleshed
hard-fought
hard-gained
hard-got
hard-grained
hard-haired
hard-handed
hard-handled
hard-hat
hard-headed
hard-heart
hard-hearted
hard-hit
hard-hitting
hard-hitting campaign
hard-iron
hard-laid
hard-learned
hard-line
hard-living
hard-looking
hard-luck guy
hard-minded
hard-mouthed
hard-natured
hard-nosed
hard-nosedness
hard-of-hearing
hard-of-hearing aid
hard-pan
hard-paste porcelain
hard-plucked
hard-pressed
hard-pushed
hard-ridden
hard-riding
hard-rock geology
hard-run
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-shelled
hard-skinned
hard-spirited
hard-spun
hard-surface
hard-surfaced
hard-swear
hard-tack
hard-timbered
hard-trotting
hard-tube pulser
hard-upness
hard-uppishness
hard-used
hard-visaged
hard-wearing
hard-witted
hard-won
hard-wooded
hard-worked
hard-working
hard-wrought
hard-wrung
harden off
harden up
harden your heart
hardening of the arteries
hardhead sponge
hardly a chance
hardly any
hardly anything
hardly ever
hardly expect
hardly like
hardly possible
hardly the thing
hardly touch
hardly wait
hardness of hearing
hardness of heart
hardness scale
hardtop convertible
hardware cloth
hardware store
hardwood tree
hardy ageratum
hardy amaryllis
hare and hounds
hare family
hare's-ear
hare's-foot
hare's-foot clover
hare's-foot fern
hare-brain
hare-brained
hare-eyed
hare-finder
hare-lip
hare-mad
harebrained idea
harem girl
hari-kari
hariali grass
haricot vert
hark back
hark back to
hark ye
harken to
harlequin bug
harlequin ca
harlequin cabbage bug
harlequin duck
harlequin glasses
harlequin opal
harlequin snake
harlequin table
harmless teasing
harmonic analysis
harmonic close
harmonic conjugates
harmonic flute
harmonic interval
harmonic mean
harmonic minor
harmonic minor scale
harmonic motion
harmonic progression
harmonic proportion
harmonic series
harmonic tone
harmonious relationship
harmonize with
harmony of the spheres
harness bull
harness cask
harness eye
harness hitch
harness horse
harness leather
harness maker
harness making
harness plate
harness race
harness racer
harness racing
harness tub
harness up
harness-bearer
harness-cask
harnessed antelope
harp groat
harp guitar
harp on
harp seal
harp shell
harp shilling
harp upon
harp upon one string
harp upon the same string
harp-shaped
harping-iron
harpoon fork
harpoon gun
harpoon log
harpoon rocket
harpy bat
harpy eagle
harpy-bat
harpy-eagle
harpy-footed
harrier eagle
harrier hawk
harrow the ear
harry out
harry to destruction
harsh and shrill sounds
harsh sound
harsh-blustering
harsh-featured
harsh-grating
harsh-looking
harsh-mannered
harsh-sounding
harsh-syllabled
harsh-tongued
harsh-voiced
hart beest
hart clover
hart thorn
hart's tongue
hart's-tongue
harts-tongue
hartshorn bush
hartshorn plant
hartshorn plantain
harum-scarum
harum-scarumness
harvest bell
harvest bug
harvest dinner
harvest doll
harvest festival
harvest fish
harvest fly
harvest home
harvest lady
harvest lily
harvest lord
harvest louse
harvest mite
harvest month
harvest moon
harvest mother
harvest mouse
harvest queen
harvest spider
harvest supper
harvest tick
harvest time
harvest work
harvest worker
harvest yarn
harvest-bug
harvest-field
harvest-lice
harvester ant
harvester-thresher
harvesting ant
has-been
hash house
hash mark
hash over
hash up
hash-slinger
hashab tree
hashed up
hasp lock
hassock grass
hasta la vista
hasta luego
hasta manana
hastato-
hasten off
hasten on
hasty conviction
hasty pudding
hasty retreat
hat blocker
hat carder
hat check
hat cleaner
hat dance
hat dyer
hat homage
hat hook
hat in hand
hat leather
hat lining
hat maker
hat money
hat palm
hat piece
hat pin
hat plant
hat rack
hat roller
hat shop
hat stand
hat tree
hat trick
hat trimming
hat-in-hand
hat-money
hat-shag
hat-shaped
hatch a plot
hatch boat
hatch box
hatch coamings
hatch deck
hatch mast
hatch money
hatch tackle
hatch up
hatch-boat
hatchet cactus
hatchet door
hatchet face
hatchet job
hatchet man
hatchet planimeter
hatchet stake
hatchet vetch
hatchet-faced
hatchet-shaped
hatching spine
hatching station
hate sheet
hate yourself for your actions
hated thing
hatha-yoga
hatted kit
haughty airs
haul around
haul down
haul down your colors
haul down your flag
haul in with
haul into court
haul off
haul over the coals
haul round
haul the wind
haul to
haul up
haul your wind
haulage incline
hauling down
haunch bone
haunch-bone
haunt the memory
haunt your thoughts
haunted with fear
hausse-col
haut couture
haut monde
haut-gout
haut-pas
haut-relief
haut-ton
haubois strawberry
haute cole
haute couture
haute cuisine
haute ecole
haute mal
haute vulgarisation
haute-feuillite
haute-piece
have a BM
have a baby
have a bad time
have a bad time of it
have a ball
have a bee in your bonnet
have a bellyful
have a bellyful of
have a bent for
have a bias
have a big bazoo
have a big mouth
have a big nose
have a blind side
have a blind spot
have a bone in your neck
have a bone in your throat
have a bone to pick
have a bone to pick with
have a bone to pick with someone
have a bowel movement
have a brush with
have a bump for
have a cake in the oven
have a canary
have a care
have a case
have a case on
have a cat fit
have a catch
have a certain sameness
have a certain state
have a chance
have a chance at
have a change of heart
have a charmed life
have a chill
have a chip on your shoulder
have a clean bill of health
have a clear conscience
have a comedown
have a conniption
have a conniption fit
have a cozy chat
have a crow to pick
have a crow to pick with
have a crow to pluck
have a crow to pluck with
have a crow to pull with
have a crush on
have a demon
have a devil
have a devil in one
have a devil in you
have a disaffinity for
have a dram
have a drink
have a drop too much
have a dry run
have a duck fit
have a faculty for
have a falling-out
have a fancy for
have a feeling
have a fine time of it
have a finger in
have a finger in the pie
have a flair for
have a fling at
have a fondness for
have a free hand
have a free mind
have a friendly chat
have a funny feeling
have a gargle
have a gift for
have a go
have a go at
have a gold mine
have a good appetite
have a good chance
have a good head for
have a good knowledge of
have a good mind to
have a good time
have a good time of it
have a good word for
have a great mind to
have a guzzle
have a hand in
have a handful of thumbs
have a hard time of it
have a head on your shoulders
have a healthy lead
have a heart
have a heart of stone
have a heart-to-heart talk
have a hemorrhage
have a high opinion of
have a hold over
have a hunch
have a jag on
have a job
have a joker
have a joker in the deck
have a kicker
have a lech for
have a leg to stand on
have a little learning
have a little talk
have a long nose
have a look at
have a looksee
have a lot to do with
have a lot to say about
have a mash on
have a memory like a sieve
have a mind like a sieve
have a mind of your own
have a mind to
have a mint
have a misery
have a mishap
have a monkey on your back
have a mortgage-burning party
have a mote in the eye
have a near miss
have a nerve
have a nervous breakdown
have a nest egg
have a nice trip
have a nip
have a part in
have a partiality
have a percentage of
have a picture of
have a piece of
have a premonition
have a presentiment
have a rehearsal
have a relapse
have a relish of
have a right to
have a rightful claim to
have a rightful claim upon
have a run
have a run of luck
have a screw loose
have a sensation
have a short attention span
have a short fuse
have a short memory
have a short memory span
have a shot at
have a show of hands
have a skinful
have a slight chance
have a small chance
have a snootful
have a soft place in your heart
have a soft spot in your heart
have a stake in
have a storm in a teacup
have a storm in a teapot
have a string attached
have a stroke of luck
have a strong effect
have a swelled head
have a talent for
have a talk with
have a tantrum
have a tapeworm
have a taste for
have a temper
have a temper tantrum
have a tempest in a teacup
have a tempest in a teapot
have a tendency
have a tender heart
have a test run
have a theory
have a thick skin
have a thing about
have a thorough knowledge of
have a tiger by the tail
have a title to
have a tongue in your head
have a turn for
have a very red face
have a voice in
have a way with one
have a way with you
have a weakness for
have a will of your own
have a willing heart
have a wolf in your stomach
have a word with
have a yellow streak
have a yen for
have about enough of
have accounts to settle
have all the earmarks of
have all the features of
have all the luck
have all the money in the world
have all the signs of
have all to yourself
have all you can stand
have all you can take
have all your eyes about one
have all your eyes about you
have all your marbles
have all your wits about one
have all your wits about you
have a look at
have an account with
have an ague
have an alias
have an anchor to windward
have an attraction
have an ax to grind
have an ear for
have an ear to the ground
have an edge
have an edge on
have an entree
have an eye for
have an eye to
have an idea
have an idea of
have an impression
have an in
have an in with
have an income of
have an inkling
have an intimation
have an opportunity
have an overdose of
have an understanding
have an upright carriage
have and hold
have another crack
have another go
have another shot
have another think coming
have another try
have ants in your pants
have as a fulcrum
have as a guest
have as a lodger
have as many phases as the moon
have as your master
have at
have at a disadvantage
have at heart
have at it
have at your command
have at your disposal
have at your disposition
have at your elbow
have at your fingers' ends
have at your fingers' tips
have at your pleasure
have bats in the belfry
have bats in your belfry
have been around
have been through the mill
have being
have better things to do
have birth
have blood in your eyes
have by heart
have by rote
have charisma
have chilblains
have childlike faith in
have clean hands
have clout
have cold feet
have coming
have coming in
have confidence
have confidence in
have connection with
have consideration for
have constantly in your thoughts
have control of
have conversations
have courage
have currency
have cut your eyeteeth
have cut your wisdom teeth
have dead to rights
have dealings with
have deep feelings
have designs on
have difficulty
have done
have done with
have doubts
have down cold
have down pat
have drag
have duck bumps
have eating out of your hand
have effect
have energy
have enough
have every appearance of
have every indication of
have every intention
have every intention of
have every sign of
have everything going your way
have everything to learn
have evidence
have exclusive possession of
have exclusive rights to
have eyes for
have eyes only for
have faith
have faith in
have favorable odds
have for your own
have for your very own
have foreboding
have free play
have free scope
have full play
have fun
have good prospects
have goose bumps
have goose pimples
have goosebumps
have gooseflesh
have got
have got to
have green in the eye
have had it
have had its day
have had your day
have half a mind to
have hallucinations
have high visibility
have hot pants for
have in
have in contemplation
have in hand
have in mind
have in prospect
have in reserve
have in sight
have in store
have in store for
have in view
have in your eye
have in your grasp
have in your grip
have in your head
have in your mind
have in your possession
have in your power
have independent means
have influence
have influence over
have information about
have intercourse
have it
have it all over
have it all your own way
have it all your way
have it bad
have it both ways at once
have it break good for one
have it coming
have it easy
have it in for
have it made
have it out
have it out of
have it reported
have it soft
have it taped
have it up to here
have its place
have its seat in
have its slot
have its time
have knowledge
have knowledge of
have leverage
have life
have little in common
have little recall
have little to say
have little weight
have lots of laughs
have magnetism
have many irons in the fire
have means
have mercy upon
have money
have money to burn
have more than you can hold
have much ado with
have need to
have nine lives like a cat
have no alternative
have no association with
have no attention span
have no bounds
have no business
have no chance
have no choice
have no claim upon
have no conception
have no desire for
have no diffidence
have no doubt
have no ears
have no end
have no expectation
have no false modesty
have no fight left
have no hand in
have no idea
have no kick coming
have no liking for
have no limit
have no limits
have no lower to go
have no measures with
have no misgivings
have no more
have no notion
have no objection
have no opportunity
have no option but
have no patience with
have no plan
have no qualms
have no recollection of
have no regrets
have no relish for
have no remembrance of
have no reservations
have no right to
have no scruple of
have no second thoughts
have no secrets
have no self-doubt
have no shame
have no taste for
have no term
have no thought of
have no time for
have no time to lose
have no time to spare
have no title to
have no truck with
have no turning
have no use for
have no words for
have not a hope
have not a prayer
have nothing but time
have nothing in common
have nothing on
have nothing to do
have nothing to do with
have occasion for
have on
have on the brain
have on the edge of your memory
have on the hip
have on the tip of the tongue
have on the tip of your tongue
have on your hands
have on your mind
have on your shoulders
have one foot in the grave
have one for the road
have one to know
have origin
have other fish to fry
have other things to do
have out
have patience and endure
have peace one with another
have permission
have personality
have pity
have place
have play
have plenty of time
have plenty on the ball
have power
have power over
have preference
have prestige
have priority
have proof
have pull
have qualms
have quite enough
have rather
have recourse to
have regard for
have repercussions
have reservations
have run its course
have run out
have savvy
have scruples
have second thoughts
have seen better days
have seen your best days
have seen your day
have sex
have sexual relations
have simple faith in
have smarts
have someone on
have something
have something laid by
have something on
have something on the ball
have something on the brain
have something to draw on
have sown your wild oats
have sternway on
have subject
have suction
have suffrage
have suspicions
have tenure
have tenure of
have tenure of appointment
have that or nothing
have the advantage of
have the appearance of
have the ascendancy
have the audacity
have the bar sinister
have the best of
have the chances against one
have the chances against you
have the cheek
have the cold creeps
have the cold shivers
have the conn
have the creeps
have the deed for
have the drop on
have the ear of
have the facts
have the fidgets
have the flavor of
have the floor
have the force of
have the friendship of
have the function of
have the gall
have the game in your hands
have the game in your own hands
have the gift of gab
have the golden touch
have the goodness
have the goods on
have the grace to
have the guts
have the hang of it
have the idea
have the impression
have the inside track
have the jitters
have the job of
have the jump on
have the knack
have the last laugh on
have the last word
have the latchstring out
have the law of
have the law on
have the look of
have the makings of
have the mastery of
have the mission of
have the nerve
have the odds against one
have the odds against you
have the opinion
have the power
have the prerequisites
have the qualifications
have the right
have the role of
have the run of
have the say
have the say-so
have the sense of
have the shakes
have the start
have the sway
have the top place
have the top spot
have the touch
have the upper hand
have the use of
have the wherewithal
have the whip hand
have the wind of
have the world at your feet
have the worst of it
have thoughts about
have tied to your apron strings
have time
have time enough
have time to spare
have title to
have to
have to answer for
have to do with
have to fall back upon
have to hand it to
have to run for it
have to your name
have too many irons in the fire
have too much
have too much of a good thing
have trouble
have truck with
have two minds
have two strings to your bow
have under control
have undertaken
have up
have up your sleeve
have way upon
have weight
have well in hand
have what it takes
have what you say go
have words
have words with
have you on the ropes
have young
have your back to the wall
have your blood on your head
have your blood up
have your cake and eat it too
have your credit good for
have your doubts
have your ear
have your eye on
have your fill
have your fling
have your hand in the till
have your hands full
have your hands in
have your hands tied
have your head screwed on right
have your heart bleed for
have your heart in your mouth
have your heart set against
have your heart set on
have your innings
have your measure
have your moments
have your monkey up
have your name in lights
have your nerve
have your nose out of joint
have your number
have your options eliminated
have your options reduced
have your own way
have your period
have your place in the sun
have your revenge
have your say
have your time
have your way
have your will
have your wits about you
have-been
have-not
have-nots
have-nots, the
haven cap
haver-corn
haves, the
havey-cavey
havildar major
having a baby
having a block for a head
having a part
having a share
having a voice
having and holding
having cotton between the ears
having life
having title to
haw tree
haw-haw
hawaii time
hawaiian guitar
hawe-bake
hawk bell
hawk call
hawk cuckoo
hawk eagle
hawk fly
hawk moth
hawk nose
hawk owl
hawk parrot
hawk swallow
hawk's nest model
hawk's-beard
hawk's-bell
hawk's-bill
hawk's-eye
hawk-beaked
hawk-billed
hawk-eyed
hawk-faced
hawk-headed
hawk-moth
hawk-nose
hawk-nosed
hawk-owl
hawk-tailed
hawking voice
hawksbill turtle
hawse bag
hawse bolster
hawse hook
hawse timber
hawse-fallen
hawse-full
hawser bend
hawser clamp
hawser fastening
hawser-laid
hawsing iron
hawthorn china
hawthorn pattern
hawthorn tingis
hawthorn wine
hay asthma
hay bacillus
hay baler
hay barrack
hay binder
hay conditioner
hay cutter
hay fern
hay fever
hay hook
hay jack
hay knife
hay loader
hay plant
hay press
hay rig
hay road
hay saffron
hay sweep
hay tedder
hay tit
hay wagon
hay worm
hay-asthma
hay-bird
hay-bote
hay-cock
hay-color
hay-colored
hay-de-guy
hay-fed
hay-fever
hay-field
hay-fork
hay-mow
hay-rack
hay-rake
hay-rick
hay-scented
hay-seed
hay-tallat
haystack thorn
hazard a conjecture
hazard of the die
hazard side
hazard warning device
hazel alder
hazel brown
hazel crottles
hazel grouse
hazel hen
hazel mouse
hazel oil
hazel pine
hazel tree
hazel worm
hazel-eyed
hazel-gray
hazel-grouse
hazel-hen
hazel-hooped
hazel-leaved
hazel-nut
hazel-wood
hazelnut oil
hazy idea
head louse
head maggot
head matter
head metal
head mistress
head mold
head molding
head money
head motion
head netting
head of hair
head of household
head of state
head of the river
head off
head office
head on
head over heels
head over heels in
head over heels in debt
head over heels in love
head pin
head register
head resistance
head sample
head scab
head sea
head shaping
head shrinker
head smut
head space
head spar
head spin
head start
head stool
head straight for
head strapper
head swell
head table
head tax
head the board
head the line
head the table
head to leeward
head to wind
head to windward
head tone
head toward
head tree
head up
head veil
head voice
head waiter
head water
head wind
head windward
head word
head yard
head-aching
head-and-tail light
head-and-tail-light fish
head-block
head-board
head-cloth
head-court
head-dress
head-flattening
head-foremost
head-gear
head-hanging
head-high
head-hunt
head-hunter
head-hunting
head-line
head-load
head-man
head-money
head-note
head-on
head-on attack
head-over-heels
head-pan
head-penny
head-piece
head-plate
head-race
head-rail
head-rope
head-sail
head-shaking
head-splitting
head-stall
head-tire
head-tossing
head-turned
head-voice
headache plant
headache powder
headache tree
headache wafer
headache weed
headed for
headed group
header bond
header tank
header-up
heading bond
heading course
heading joint
heading machine
heading stone
heading sword
heading tool
heading toward
heading-machine
headline attraction
headlong plunge
headlong rush
headmistress-ship
heads or tails
heads up
heads-up
headwater erosion
heal itself
heal over
heal the breach
heal-all
heal-bite
heal-dog
heald knitter
healing agent
healing art
healing arts
healing blade
healing by first intention
healing by second intention
healing herb
healing leaf
healing ointment
healing quality
healing virtue
health centre
health examination
health food
health food store
health foods
health hazard
health insurance
health officer
health physicist
health physics
health resort
health salts
health spa
health visitor
health-enhancing
health-preserving
healthy body
healthy constitution
healthy economy
healthy glow
healthy hue
healthy meal
healthy mind
healthy-minded
healthy-mindedly
healthy-mindedness
heap coals of fire on your head
heap dirt upon
heap leaching
heap roasting
heap up
heap upon
heaped-up
heaps of gold
hear a different drummer
hear confession
hear it for
hear nothing
hear of
hear out
hear say
hear shots fired in anger
hear tell of
hear to
hear ye
hearing aid
hearing impairment
hearing loss
hearing-aid battery
hearken to
hearsay evidence
hearsay rule
heart action
heart amulet
heart and soul
heart attack
heart back
heart block
heart bond
heart cam
heart cherry
heart clam
heart clot
heart clover
heart cockle
heart complaint
heart condition
heart cup
heart disease
heart failure
heart flower
heart line
heart liver
heart liverleaf
heart medic
heart murmur
heart of gold
heart of grace
heart of hearts
heart of oak
heart of stone
heart out
heart pine
heart point
heart rot
heart sac
heart shell
heart shock
heart snakeroot
heart stimulant
heart strain
heart surgery
heart tamponade
heart transplant
heart trefoil
heart trouble
heart urchin
heart wall
heart yarn
heart's blood
heart's core
heart's desire
heart's-ease
heart-ache
heart-affecting
heart-angry
heart-back
heart-blood
heart-bond
heart-bound
heart-break
heart-bred
heart-broken
heart-burdened
heart-burning
heart-cheering
heart-chilled
heart-chilling
heart-corroding
heart-deadened
heart-dulling
heart-eating
heart-expanding
heart-fallen
heart-fashioned
heart-felt
heart-flowered
heart-flowered orchid
heart-free
heart-freezing
heart-fretting
heart-gnawing
heart-gripping
heart-happy
heart-hardened
heart-hardening
heart-heaviness
heart-heavy
heart-hungry
heart-ill
heart-leaved
heart-leaved aster
heart-leaved willow
heart-lung machine
heart-melting
heart-moving
heart-piercing
heart-purifying
heart-quake
heart-ravishing
heart-rendering
heart-rendingly
heart-robbing
heart-searching
heart-shaking
heart-shaped
heart-shed
heart-sick
heart-sore
heart-sorrowing
heart-spoon
heart-stirring
heart-stricken
heart-strickenly
heart-strike
heart-strings
heart-struck
heart-swelling
heart-swollen
heart-tearing
heart-thrilling
heart-throb
heart-throbbing
heart-tickling
heart-to-heart
heart-to-heart talk
heart-warm
heart-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wrangling
heart-wrung
heartfelt apology
heartfelt grief
hearth and home
hearth cricket
hearth money
hearth tax
hearth-money
hearth-penny
hearth-rug
hearth-stead
hearth-tax
hearts and flowers
hearts-and-flowers
hearty assent
hearty enjoyment
hearty laugh
hearty meal
hearty welcome
heat absorber
heat apoplexy
heat asphyxia
heat balance
heat barrier
heat canker
heat capacity
heat center
heat conduction
heat conductivity
heat content
heat death
heat detector
heat devil
heat energy
heat engine
heat engineer
heat engineering
heat equation
heat equator
heat equivalent
heat exchange
heat exchanger
heat exhaustion
heat factor
heat fever
heat lamp
heat lightning
heat nodules
heat of condensation
heat of fusion
heat of solidification
heat of sublimation
heat of vaporization
heat potential
heat prostration
heat pump
heat rash
heat ray
heat regulator
heat reservoir
heat rigor
heat science
heat seeker
heat shield
heat sink
heat spectrum
heat spot
heat sum
heat the economy
heat therapy
heat treating
heat treatment
heat unit
heat up
heat up the economy
heat wave
heat weight
heat-absorbing
heat-conducting
heat-cracked
heat-drop
heat-engine cycle
heat-forming
heat-full fire
heat-giving
heat-island
heat-killed
heat-laden
heat-loving
heat-oppressed
heat-power engineer
heat-power engineering
heat-producing
heat-radiating
heat-reducing
heat-regulating
heat-resistant
heat-resisting
heat-softened
heat-spot
heat-tempering
heat-treat
heat-treated
heat-treating
heat-treatment
heat-wave
heated imagination
heated up
heater cord
heater piece
heater-shaped
heath aster
heath bell
heath box
heath bramble
heath cock
heath cypress
heath family
heath fern
heath grass
heath grouse
heath hen
heath honeysuckle
heath moss
heath mulberry
heath pea
heath peat
heath poul	heath rush
heath scrub
heath wren
heath-bell
heath-berry
heath-bird
heath-clad
heath-cock
heath-hen
heath-pea
heathen god
heather bell
heather cat
heather grass
heather purple
heather whin
heather wool
heather-bell
heather-bleat
heather-blutter
heating coil
heating degree-day
heating duct
heating element
heating furnace
heating pad
heating pipe
heating plant
heating-up
heauto-
heave a sigh of relief
heave aloft
heave alongside
heave and awash
heave apeak
heave at
heave down
heave ho
heave in sight
heave in together
heave offering
heave out
heave out a sail
heave overboard
heave round
heave short
heave shoulder
heave the gorge
heave the lead
heave the log
heave to
heave-ho
heave-off hinge
heave-offering
heave-shouldered
heaven above
heaven disturber
heaven of heavens
heaven on earth
heaven tree
heaven worshiper
heaven's artillery
heaven's ebon vault
heaven's high city
heaven-accepted
heaven-aspiring
heaven-assailing
heaven-begot
heaven-bent
heaven-born
heaven-bred
heaven-built
heaven-clear
heaven-controlled
heaven-daring
heaven-dear
heaven-defying
heaven-descended
heaven-devoted
heaven-directed
heaven-erected
heaven-fallen
heaven-forsaken
heaven-gate
heaven-gifted
heaven-given
heaven-guided
heaven-high
heaven-inspired
heaven-instructed
heaven-kissing
heaven-lighted
heaven-lit
heaven-made
heaven-prompted
heaven-protected
heaven-reaching
heaven-rending
heaven-sent
heaven-sprung
heaven-sweet
heaven-taught
heaven-threatening
heaven-touched
heaven-warring
heaven-wide
heavenly bamboo
heavenly being
heavenly body
heavenly fruit
heavenly hierarchy
heavenly host
heavenly kingdom
heavenly-minded
heavenly-mindedness
heavens and earth
heavenward tree
heaver-off
heaver-out
heaver-over
heavier-than-air
heavier-than-air craft
heaviness of heart
heaving aloft
heaving pile
heaving up
heaving-line bend
heaviside layer
heavy artillery
heavy as lead
heavy blow
heavy bomber
heavy chemicals
heavy cream
heavy cruiser
heavy demand
heavy dew
heavy dragoon
heavy drinker
heavy drinking
heavy earth
heavy eyelids
heavy field artillery
heavy force fit
heavy hand
heavy harmony
heavy heart
heavy hydrogen
heavy lead
heavy meal
heavy metal
heavy mineral oil
heavy nitrogen
heavy object
heavy oil
heavy on
heavy oxygen
heavy particle
heavy particle counter
heavy pine
heavy platinum group
heavy purse
heavy rain
heavy right foot
heavy sea
heavy sin
heavy sky
heavy sledding
heavy sleep
heavy smoker
heavy solution
heavy spar
heavy swell
heavy thinking
heavy transport
heavy water
heavy weather
heavy wet
heavy wine
heavy with child
heavy with meaning
heavy with significance
heavy with sleep
heavy with young
heavy-armed
heavy-bearded
heavy-blossomed
heavy-bodied
heavy-boned
heavy-booted
heavy-boughed
heavy-drinking
heavy-duty
heavy-eared
heavy-eyed
heavy-faced
heavy-featured
heavy-fisted
heavy-fleeced
heavy-footed
heavy-footedness
heavy-fruited
heavy-gaited
heavy-handed
heavy-handedly
heavy-handedness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartenedness
heavy-heeled
heavy-jawed
heavy-laden
heavy-leaved
heavy-lidded
heavy-limbed
heavy-lipped
heavy-looking
heavy-mettled
heavy-moutheed
heavy-paced
heavy-scented
heavy-seeming
heavy-set
heavy-shotted
heavy-shouldered
heavy-shuttered
heavy-smelling
heavy-soled
heavy-tailed
heavy-timbered
heavy-weight
heavy-winged
heavy-witted
heavy-wooded
heb-sed
hebe-
hebe-ephrenic schizophrenia
heck-how
hect-
hectic fever
hectic flush
hecto-
hecto-ampere
hectograph copy
heddle brasher
heddle knitter
hedge about
hedge accentor
hedge apple
hedge bedstraw
hedge bells
hedge bird
hedge cactus
hedge carpenter
hedge chanter
hedge crocus
hedge fumitory
hedge garlic
hedge grape
hedge hyssop
hedge in
hedge laurel
hedge layer
hedge marriage
hedge priest
hedge rose
hedge sparrow
hedge stake
hedge trimmer
hedge your bets
hedge-bird
hedge-bound
hedge-creeper
hedge-hyssop
hedge-pig
hedge-priest
hedge-school
hedge-sparrow
hedged about
hedged about by
hedged by
hedged in
hedged-in
hedgehog aloe
hedgehog cactus
hedgehog caterpillar
hedgehog coneflower
hedgehog gourd
hedgehog grass
hedgehog transformer
hedging your bets
hedging-in
hedonic calculus
hedonistic calculus
hee-haw
hee-hee
hee-hee!
heebie jeebies
heebie-jeebies
heedless hap
heel bar
heel block
heel blocker
heel bone
heel breast
heel builder
heel chain
heel clamp
heel cutter
heel fly
heel in
heel jigger
heel nailer
heel of Achilles
heel pad
heel padder
heel ring
heel rope
heel seat
heel seater
heel splitter
heel spur
heel stay
heel tapper
heel tool
heel trimmer
heel wedge
heel-and-toe
heel-and-toe dancer
heel-attaching
heel-ball
heel-bone
heel-breast
heel-breaster
heel-fast
heel-piece
heel-plate
heel-post
heel-rope
heel-tap
heel-way
heeling tank
heels over head
hefty eater
heh deity
heidelberg man
heigh ho
heigh-ho
height block
height board
height district
height finder
height gauge
height measure
height measurement
height of fashion
height of land
height pressure
height to paper
height to surface
height-to-paper
heir apparenacy
heir apparent
heir at law
heir by destination
heir expectant
heir general
heir in tail
heir of entail
heir of inventory
heir of line
heir of provision
heir of the body
heir portioner
heir presumptive
heir whatsoever
heir-at-law
heiress-ship
heirs apparent
heirs at law
heirs presumptive
held back
held dear
held in awe
held in consideration
held in esteem
held in favor
held in pledge
held in regard
held in reserve
held in respect
held in trust
held out
held up
helen of troy
heli-
heliacal rising
helianthine B
helic-
helical gear
helical rack
helico-
helicoidal saw
helicopter gun ship
helicopter gunship
helio-
heliocentric longitude
heliocentric parallax
heliographic chart
heliotrope gray
helium group
helix angle
hell around
hell bomb
hell broke loose
hell for leather
hell gate
hell hole
hell let loose
hell mouth
hell of a
hell to pay
hell upon earth
hell week
hell's bells
hell's half-acre
hell's kitchen
hell-begotten
hell-bent
hell-bent for election
hell-bent on
hell-bind
hell-black
hell-born
hell-bound
hell-bred
hell-brewed
hell-cat
hell-dark
hell-deep
hell-devil
hell-diver
hell-doomed
hell-driver
hell-engendered
hell-fire
hell-fired
hell-for-leather
hell-gate
hell-hard
hell-hatched
hell-haunted
hell-hound
hell-like
hell-raiser
hell-raker
hell-red
hell-vine
hellebore green
hellebore red
hellish host
hello girl
hello there
helm alee
helm aport
helm astraboard
helm aweather
helm port
helm wind
helm-wind
helmet liner
helmet of hair
helmet quail
helmet shell
helmet-crest
helmet-shaped
helmet-wearing
helmeted guinea fowl
helminth-
help a lame dog over a stile
help along
help bear your grief
help decide
help in time of need
help on its way
help out
help to
help up
help yourself to
helped by
helping along
helping hand
helter-skelter
helter-skelteriness
helve hammer
hem and haw
hem in
hem-
hem-stitch
hema-
hemat-
hematin crystals
hematin paste
hematite red
hemato-
hematocrit value
hematogenic shock
hemi-
hemi-elytrum
hemi-type
hemispherico-conical
hemispherico-conoid
hemlock fir
hemlock parsley
hemlock pitch
hemlock spruce
hemlock-leaved
hemmed in
hemmed-in
hemming-in
hemo-
hemolymph gland
hemolytic anemia
hemophilia A
hemophilia B
hemophilia C
hemophilic arthritis
hemorrhagic measles
hemorrhagic plague
hemorrhagic septicemia
hemp agrimony
hemp nettle
hemp oil
hemp palm
hemp tree
hemp-agrimony
hemp-nettle
hempen bridle
hempen collar
hempen necktie
hempen tippet
hempseed oil
hen and chickens
hen clam
hen coop
hen curlew
hen flea
hen frigate
hen gorse
hen harrier
hen hawk
hen louse
hen mold
hen party
hen pepper
hen plant
hen run
hen scratches
hen track
hen tracks
hen turkey
hen's-foot
hen-and-chickens
hen-coop
hen-driver
hen-egg
hen-fat
hen-feathered
hen-feathering
hen-harrier
hen-hawk
hen-hearted
hen-house
hen-peck
hen-pecked
hen-roost
hen-tailed
hench-boy
hendeca-
hens-and-chickens
hep to
hepar calcis
hepat-
hepato-
hepato-pancreas
hepped up
hepped up over
hepta-
heptadecanoic acid
her infinite variety
her native ornament of hair
herabol myrrh
herald abroad
herald angel
herald's college
herald's trick
here's to you
here-hence
hereafter, the
hereditary character
hereditary disease
heriot service
herky-jerky
hermaphrodite brig
hermaphrodite caliper
hermaphrodite duct
hermaphrodite schooner
hermes trismegistus
hermetically sealed
hermit crab
hermit crow
hermit order
hermit thrush
hermit warbler
hermo-
hemera pink
hernio-
hero sandwich
hero worship
hero-shiped
hero-shiping
hero-shipped
hero-shipping
hero-worship
hero-worshiper
hero-worshiping
heroi-comic
heroic act
heroic age
heroic couplet
heroic deed
heroic legend
heroic myth
heroic poetry
heroic stanza
heroic tenor
heroic verse
heron's-bill
herpes facialis
herpes labialis
herpes simplex
herpes zoster
herpet-
herr-ban
herring buss
herring gull
herring hog
herring king
herring oil
herring pond
herring salad
herring work
herring-bone
herring-kale
herring-pond
herring-shaped
herringbone bond
herringbone bridging
herringbone gear
herringbone stitch
herringbone strutting
hertzian wave
hesitant approach
hesitate over
hesitation waltz
hesper-
hesperid-
hessian boot
hessian fly
het up
heter-
hetero-
heterogeneous reactor
heterogeneous system
heterogenous vaccine
heterolytic fission
heterotrophic organism
hew down
hew-hole
hex doctor
hex mark
hex sign
hex-
hexa-
hexacosanoic acid
hexadecanoic acid
hexadecimal notation
hexadecimal system
hexaethyl tetraphosphate
hexagon-drill
hexakis-
hexanedioic acid
hexanoic acid
hexoic acid
hexose sugar
hexyl group
hexyl radical
hey rube
hey-day
hey-day guise
hey-ho
heyday of the blood
heyday of youth
hi ya
hi-fi
hi-fi fan
hiatal hernia
hiatus hernia
hiatus of learning
hiberno-
hic et nunc
hicc et ubique
hic jacet
hic-cough
hiccius doccius
hiccup-nut
hick joint
hick town
hick-joint pointing
hickory acacia
hickory aphid
hickory borer
hickory cloth
hickory elm
hickory girdler
hickory moth
hickory nut
hickory oak
hickory oil
hickory phylloxera
hickory pine
hickory poplar
hickory shad
hickory shirt
hickory stripe
hickory twig girdler
hickory wattle
hidden danger
hidden hand
hidden meaning
hidden out
hidden-fruited
hidden-veined
hide away
hide beetle
hide nor hair
hide or hair
hide out
hide rope
hide splitter
hide under
hide your face
hide your hand
hide your head
hide your head in the sand
hide your light under a bushel
hide your trail
hide yourself
hide-and-go-seek
hide-and-seek
hide-out
hidebound disease
hidey hole
hidey-hole
hiding place
hiding power
hidro-
hidy-hole
hie on
hie to
hie yourself to
hielaman tree
hier-
hiera picra
hieratic symbol
hiero-
hig taper
higgledy-piggledy
high aim
high altar
high analysis
high and dry
high and low
high and mighty
high as a kite
high as a steeple
high bar
high beam
high birth
high blood pressure
high blower
high brass
high bunt
high by-pass ratio engine
high camp
high celebration
high chair
high chief
high church
high collar
high color
high comedy
high command
high commissioner
high cost
high court
high cranberry
high day
high descent
high diver
high diving
high dudgeon
high energy physics
high explosive
high fashion
high feather
high fidelity
high finance
high flavor
high fog
high frequency
high fullham
high german
high glee
high goal
high grade
high growth rate
high hand
high hat
high heaven
high holiday
high hopes
high horse
high hurdles
high ideals
high income
high iron
high jinks
high jump
high jumper
high king
high life
high light
high liver
high living
high lope
high mass
high mightiness
high milling
high muck-a-muck
high noon
high old time
high on the hog
high order
high pitch
high place
high places
high point
high polymer
high pressure
high price
high price tag
high prices
high priest
high priesthood
high principles
high proof
high purpose
high rank
high regard
high relief
high renaissance
high repute
high road
high rod
high roller
high school
high schooler
high sea
high seas
high season
high seat
high sign
high society
high specific activity
high spirits
high spot
high standard of living
high steel
high street
high summer
high table
high tax bracket
high tea
high tech
high tide
high time
high treason
high up
high value
high visibility
high voice
high water
high wind
high wine
high wines
high wire
high wire artist
high words
high yellow
high-aimed
high-aiming
high-altitude bombing
high-altitude flying
high-altitude research aircraft
high-altitude research rocket
high-altitude rocket
high-and-mightiness
high-and-mighty
high-angle fire
high-angle gun
high-angled
high-arched
high-aspiring
high-backed
high-binder
high-blazing
high-blessed
high-blooded
high-blower
high-blown
high-bodiced
high-flavored
high-flier
high-flowing
high-flown
high-flown diction
high-flushed
high-flyer
high-flying
high-flying tippler
high-foreheaded
high-frequency
high-frequency amplification
high-frequency cable
high-frequency current
high-frequency direction finder
high-frequency heater
high-frequency pulse
high-frequency speaker
high-frequency telephony
high-frequency treatment
high-frequency wave
high-gazing
high-geared
high-grade
high-grade bond
high-grade ore
high-grade stock
high-grown
high-handed
high-handedly
high-handedness
high-hat
high-hat cymbals
high-hatted
high-hattedness
high-hatter
high-hattiness
high-hatting
high-hatty
high-headed
high-heaped
high-hearted
high-heel
high-heeled
high-hoe
high-holder
high-hole
high-horned
high-hung
high-intensity lamp
high-judging
high-key
high-keyed
high-level
high-level language
high-level talk
high-lineaged
high-lived
high-living
high-lone
high-low
high-low-jack
high-lows
high-lying
high-mettled
high-minded
high-mindedly
high-mindedness
high-motived
high-mounted
high-mounting
high-mu tube
high-muck-a
high-muck-a-muck
high-muckety-muck
high-necked
high-nosed
high-notioned
high-octane
high-octane gas
high-pass
high-pass filter
high-peaked
high-pitch
high-pitched
high-placed
high-pointing
high-pooped
high-potency
high-potential
high-power
high-powered
high-pressure
high-pressure area
high-pressure cylinder
high-pressure methods
high-pressure salesmanship
high-pressured
high-pressuring
high-priced
high-principled
high-priority
high-prized
high-proof
high-protein diet
high-quality
high-raised
high-ranking
high-reaching
high-reared
high-resolved
high-rigger
high-rise
high-rise apartment building
high-riser
high-roofed
high-runner
high-school
high-sea
high-seasoned
high-seated
high-set
high-shoe
high-shouldered
high-sided
high-sighted
high-soaring
high-society
high-soled
high-souled
high-sounding
high-sounding words
high-speed
high-speed data handling
high-speed digit computer
high-speed embosser
high-speed memory
high-speed steel
high-speed turn
high-spirited
high-spiritedly
high-spiritedness
high-stepper
high-stepping
high-stomached
high-strung
high-sulphur
high-swelling
high-swollen
high-swung
high-tail
high-tasted
high-temperature cement
high-tempered
high-tension
high-test
high-thoughted
high-throned
high-thundering
high-tide
high-tone
high-toned
high-topped
high-topped shoes
high-tory
high-towered
high-tuned
high-up
high-ups
high-vacuum phototube
high-vaulted
high-velocity
high-vitamin diet
high-voltage
high-voltage probe
high-waisted
high-walled
high-warp
high-water
high-water mark
high-water pants
high-water shrub
high-wing monoplane
high-wire artist
high-wrought
highball glass
highbush blueberry
highbush huckleberry
higher algebra
higher apsis
higher arithmetic
higher criticism
higher echelons
higher education
higher fungus
higher mathematics
higher-up
higher-ups
highest category
highest common factor
highest degree
highest pitch
highest point
highest type
highest-ranking
highfalutin ways
highfaluting ways
highland cranberry
highland cudweed
highland fling
highlight halftone
highly colored imagination
highly considered
highly emotional
highly esteemed
highly regarded
highly reputed
highly respectable
highly satisfied
highly strung
highly touted
highly-wrought
highs sounding
hightail it
highly-tighty
highwall tent
highway engineer
highway engineering
highway marker
highway patrol
highway robber
highway robbery
highway trailer
highways and byways
hike out
hike up
hiking trail
hilaro-tragedy
hill clematis
hill climb
hill climber
hill country
hill folk
hill fox
hill grub
hill heaped upon hill
hill myna
hill oat
hill of beans
hill palm
hill partridge
hill planter
hill station
hill tit
hill-altar
hill-dwelling
hill-fort
hill-girdled
hill-girt
hill-man
hill-side
hill-surrounded
hill-top
hillbilly music
hillock tree
hillside plow
hilly-billy
hinc illae lacrimae
hind end
hind kidney
hind leg
hind legs
hind part
hind shank
hind wing
hind-calf
hind-foremost
hind-gut
hind-head
hind-sight
hinder part
hinge fault
hinge joint
hinge line
hinge on
hinge plate
hinge strap
hinge tooth
hinge upon
hinge-pole
hinged joint
hinging on
hinging post
hinoki cypress
hint at
hip and thigh
hip bath
hip boot
hip boots
hip brier
hip disease
hip flask
hip girdle
hip joint
hip knob
hip lock
hip molding
hip pocket
hip rafter
hip roll
hip roof
hip rose
hip straps
hip tile
hip vertical
hip-and-valley roof
hip-bone
hip-girdle
hip-gout
hip-huggers
hip-joint
hip-roof
hip-roofed
hip-shot
hippo-
hipp-
hipped on
hipped roof
hippety-hop
hippety-hoppety
hippo-
hippocampal convolution
hippocampal gyrus
hippocras bag
hippocratic oath
hirdie-girdie
hirdum-dirdum
hire on
hire out
hire purchase
hire purchase plan
hire-purchase
hire-purchase system
hired aplauder
hired car
hired girl
hired gun
hired hand
hired help
hired killer
hired limousine
hired man
hiri Motu
hiring hall
hirse grass
hirudo-rufous
his heels
his honor
his lordship
his nibs
his phoenix down
his self
his worship
hispano-
hisping sounds
hist-
histamine shock
histo-
historic episcopate
historical documents
historical error
historical geology
historical linguistics
historical materialism
historical materialist
historical method
historical novel
historical painter
historical painting
historical present
historical present tense
historical records
historical school
historical truth
historico-
historico-ethical
history is bunk
history is merely gossip
history of ideas
history of printing
histrionic art
hit a clinker
hit a clip
hit a nerve
hit a slump
hit a sour note
hit a streak of luck
hit against
hit and miss
hit and run
hit at
hit back at
hit batsman
hit below the belt
hit bottom
hit for
hit home
hit it
hit it big
hit it off
hit it off with
hit it on the nose
hit like lightning
hit man
hit off
hit off on
hit on
hit one for
hit or miss
hit out
hit pay dirt
hit rock bottom
hit show
hit the ball
hit the booze
hit the bottle
hit the brake pedal
hit the campaign trail
hit the ceiling
hit the deck
hit the eye
hit the hay
hit the high spots
hit the jackpot
hit the mark
hit the nail on the head
hit the road
hit the sack
hit the sauce
hit the silk
hit the skids
hit the spot
hit the trail
hit town
hit tune
hit up
hit upon
hit upon a solution
hit you in the eye
hit you where you live
hit-and-miss
hit-and-miss window
hit-and-run
hit-and-run attack
hit-and-run driver
hit-in
hit-off
hit-or-miss
hit-or-missness
hit-run
hit-skip
hitch a ride
hitch and hike
hitch angle
hitch kick
hitch on
hitch pin
hitch rides
hitch up
hitch your wagon to a star
hitch-hiker
hitching post
hitching your wagon to a star
hither and thither
hither and yon
hitting the booze
hitting the bottle
hitting the sauce
hitting-up
hitty-missy
hive bee
hive body
hive dross
hive of industry
hive off
hive sirup
hive vine
ho, hum
ho-bird
ho-ho
ho-hum
hoar-frost
hoar-frosted
hoar-stone
hoard up
hoary age
hoary cress
hoary eld
hoary hair
hoary-eyed
hoary-feathered
hoary-haired
hoary-headed
hoary-headed joke
hoary-leaved
hoary-white
hob ferret
hob tap
hob-and-nob
hob-nob
hob-thrush
hobble skirt
hobble-bush
hobbling pilot
hobby shop
hobby-horse
hobnail glass
hobnailed shoes
hobnob with
hobo camp
hobo jungle
hobson's choice
hobson-jobson
hoc anno
hoc est
hock a tchainik
hock cockle
hock leg
hock shop
hock-cart
hock-day
hockey cart
hockey gloves
hockey skate
hockey skates
hockey stick
hocking ale
hocus-pocus
hocus-pocused
hocus-pocusing
hocus-pocussed
hocus-pocussing
hod carrier
hoddy-doddy
hodge-podge
hodge-pudding
hodgkin's disease
hoe culture
hoe drill
hoe in
hoe into
hoe-cake
hoe-plough
hog ape
hog apple
hog badger
hog brake
hog call
hog caterpillar
hog chain
hog cholera
hog deer
hog flu
hog for, a
hog frame
hog gum
hog hair
hog hook
hog in armour
hog jowl
hog lard
hog louse
hog mane
hog millet
hog money
hog peanut
hog piece
hog plum
hog pox
hog score
hog sheer
hog stave
hog sucker
hog truss
hog turn
hog wallow
hog wire
hog's back
hog's bean
hog's fennel
hog's pudding
hog's-back
hog- wash
hog-backed
hog-brace
hog-cote
hog-deer
hog-faced
hog-fat
hog-fish
hog-frame
hog-louse
hog-maned
hog-moutheed
hog-necked
hog-nose
hog-nose snake
hog-nosed
hog-nut
hog-plum
hog-raising
hog-reeve
hog-score
hog-skin
hog-tie
hog-tied
hog-tight
hog-trough
hog-wash
hog-wild
hogen mogen
hogger pump
hogging-frame
hognose snake
hognosed skunk
hohl-flute
hoi polloi
hoisin sauce
hoist a banner
hoist by
hoist by your own petard
hoist loader
hoist sail
hoist the blue Peter
hoist the white flag
hoist with
hoist-
hoisting gaff
hoisting machine
hoisting yard
hoity-toitiness
hoity-toity
hoity-toityism
hoity-toyness
hokey act
hokey comic
hokey up
hoker moker
hokey cokey
hokey-pokey
hokum act
hokum comic
hol-
hold a brief for
hold a candle to
hold a card
hold a close wind
hold a conversation
hold a course
hold a funeral
hold a heading
hold a high opinion of
hold a loose rein
hold a low opinion of
hold a meeting
hold a middle course
hold a post
hold a press conference
hold a seance
hold a session
hold a sitting
hold a tight hand upon
hold aces
hold against
hold aloof
hold aloof from
hold an idea
hold as
hold at bay
hold at your beck and call
hold away from
hold back
hold beam
hold beneath contempt
hold beneath one
hold by
hold captive
hold cheap
hold communication
hold conference
hold control
hold court
hold dear
hold down
hold down a job
hold everything
hold fast
hold for
hold for ransom
hold forth
hold forth without interruption
hold good
hold hands
hold in
hold in abomination
hold in bondage
hold in captivity
hold in check
hold in consideration
hold in contempt
hold in custody
hold in derision
hold in esteem
hold in fee simple
hold in hand
hold in leading strings
hold in leash
hold in low esteem
hold in mind
hold in restraint
hold in reverence
hold in solution
hold in subjection
hold in swaddling clothes
hold in the thoughts
hold in thrall
hold in view
hold it
hold it against
hold jubilee
hold membership
hold no brief for
hold off
hold office
hold on
hold on a course
hold on like a bulldog
hold on the course
hold on to
hold opposite views
hold out
hold out a helping hand
hold out against
hold out an expectation
hold out hope
hold out on
hold out promise
hold out the hand
hold out the olive branch
hold out the right of fellowship
hold out the right of friendship
hold over
hold over your head
hold prisoner
hold spellbound
hold steady
hold steady for
hold the attention
hold the bag
hold the belief
hold the course
hold the field
hold the fort
hold the helm
hold the interest
hold the line
hold the market
hold the memory of
hold the mirror up to nature
hold the phone
hold the prerogative
hold the promptbook
hold the proxy of
hold the purse strings
hold the reins
hold the ring of truth
hold the sack
hold the scales
hold the stage
hold the thought
hold the wire
hold tight
hold to
hold together
hold true
hold under close arrest
hold under house arrest
hold up
hold up in the wash
hold up the hand
hold up the mirror to
hold up to public ridicule
hold up to public scorn
hold up to public shame
hold up to reprobation
hold up to shame
hold up to view
hold up your hand
hold up your head
hold water
hold with
hold yard
hold your breath
hold your course
hold your end up
hold your eye
hold your gaze
hold your ground
hold your hand
hold your head above water
hold your head high
hold your horses
hold your jaw
hold your lip
hold your nose in the air
hold your own
hold your path
hold your peace
hold your sides
hold your tongue
hold your way
hold yourself aloof
hold yourself apart
hold yourself erect
hold yourself in readiness
hold yourself stiff
hold yourself straight
hold-all
hold-back
hold-clear
hold-down
hold-off
hold-up
hold-up bill
holder of the legal estate
holder-forth
holder-on
holder-up
holding back
holding company
holding furnace
holding ground
holding in
holding in remembrance
holding paddock
holding pattern
holding together
holding-out partner
holdup job
holdup man
hole card
hole in one
hole in the heart
hole in the wall
hole out
hole to creep out of
hole up
hole-and-comer
hole-and-corner
hole-high
hole-in-corner
holes in
holey dollar
holiday camp
holly oak
holly-green
holly-leaved
hollyhock anthracnose
hollyhock fungus
hollyhock rust
hollywood bed
holm cock
holm oak
holm thrush
holm tree
holm-oak
holm-tree
holo-
holocrine gland
holographic will
holstein-friesian
holster pipe
holus-bolus
holy Christ
holy Christmas
holy Moses
holy bread
holy cats
holy city
holy clover
holy communion
holy cow
holy cross
holy day
holy day of obligation
holy days
holy dollar
holy father
holy fire
holy ghost
holy grail
holy grass
holy hour
holy innocents' day
holy joe
holy land
holy mackerel
holy man
holy matrimony
holy mess
holy of holies
holy office
holy oil
holy order
holy orders
holy place
holy rite
holy roller
holy roman empire
holy rood
holy saturday
holy see
holy shit
holy smoke
holy spirit
holy stone
holy synod
holy table
holy terror
holy thistle
holy thursday
holy tide
holy war
holy water
holy water sprinkle
holy water sprinkler
holy wedlock
holy week
holy well
holy writ
holy year
holy-day
holy-minded
holy-mindedness
holy-water basin
holy-water font
holy-water sprinkler
holy-water stoup
home-
home address
home appliance
home base
home brew
home builder
home circle
home defense army
home dweller
home economics
home economist
home free
home-driven
home-dwelling
home-faring
home-fed
home-felt
home-going
home-growing
home-grown
home-keeping
home-killed
home-loving
home-made
home-owning
home-raised
home-reared
home-sailing
home-sent
home-sick
home-sickness
home-staying
home-thrust
home-woven
homeless waif
homely as a mud fence
homely enough to sour milk
homely enough to stop a clock
homeo-
homeopathic dose
homeopathic magic
homestead law
homeward bound
homeward-bound
homeward-bounder
homicidal maniac
homing device
homing guidance
homing pigeon
homing rocket
homing torpedo
hominy grits
homme de cour
homme moyen sensuel
homo faber
homo sapiens
homo signorum
homo-
homo-hetero-analysis
homo-organ
homoeo-
homogeneous coordinates
homogeneous reactor
homogenized milk
homogentisic acid
homoi-
 homoio-
homologous chromosomes
homologous vaccine
homolographic projection
homolosine projection
homolytic fission
homonymous construction
homosexual marriage
homosexual neurosis
homothetic transformation
hone for
honest as the day is long
honest injun
honest man
honest person
honest sweat
honest woman
honest-to-God
honey ant
honey badger
honey bag
honey ball
honey balm
honey bear
honey beige
honey bell
honey bird
honey blond
honey bottle
honey bread
honey bunch
honey buzzard
honey cake
honey cherry
honey child
honey clover
honey creeper
honey crisp
honey eater
honey extractor
honey fly
honey fungus
honey garlic
honey gilding
honey gland
honey grass
honey guide
honey jack
honey kite
honey locust
honey lotus
honey maker
honey making
honey mesquite
honey moth
honey mouse
honey mushroom
honey palm
honey plant
honey ratel
honey sac
honey stomach
honey tree
honey tube
honey up
honey vine
honey weasel
honey whip
honey yellow
honey-bear
honey-bearing
honey-bee
honey-bird
honey-blond
honey-bloom
honey-buzzard
honey-color
honey-colored
honey-dew
honey-drop
honey-dropping
honey-eater
honey-eating
honey-flower
honey-flowing
honey-gathering
honey-guide
honey-heavy
honey-laden
honey-loaded
honey-month
honey-mouthed
honey-pot
honey-secretion
honey-stalks
honey-steeped
honey-stone
honey-stored
honey-storing
honey-sweet
honey-tasting
honey-tongued
honey-voiced
honey-yielding
honeycomb coral
honeycomb isinglass
honeycomb moth
honeycomb radiator
honeycomb ringworm
honeycomb sponge
honeycomb stitch
honeycomb stomach
honeycomb tripe
honeycomb work
honeydew melon
honeyed phrases
honeyed tongue
honeyed words
honeymoon bridge
honesuckle apple
honesuckle clover
honesuckle family
honesuckle grass
honesuckle ornament
honesuckle tree
honi soit qui mal y pense
honk the horn
honky-tonk
honor a bill
honor be to
honor before
honor bright
honor card
honor guard
honor man
honor medal
honor point
honor price
honor roll
honor society
honor system
honor trick
honor-bound
honor-fired
honor-giving
honor-owing
honor-thirsty
honorable descent
honorable discharge
honorable mention
honorable ordinary
honorary canon
honorary member
honoris causa
honors course
honors of war
honour school
honourable discharge
honours list
honours of war
hoo-ha
hooch hound
hood cap
hood clock
hood end
hood molding
hood mould
hood-crowned
hood-mould
hood-shaped
hooded barley
hooded crow
hooded grass
hooded matweed
hooded seal
hooded top
hooded warbler
hoodie crow
hoodman-blind
hoof foot
hoof it
hoof-and-mouth disease
hoof-bound
hoof-cast
hoof-cut
hoof-plowed
hoof-printed
hoof-shaped
hoofed animal
hook a ride
hook and butt
hook and eye
hook and ladder
hook bolt
hook check
hook climber
hook gauge
hook in
hook into
hook it
hook ladder
hook maker
hook money
hook pin
hook rug
hook scarf
hook screw
hook shot
hook slide
hook spanner
hook squid
hook up
hook up with
hook wrench
hook, line, and sinker
hook-and-ladder
hook-and-ladder company
hook-and-ladder truck
hook-armed
hook-backed
hook-beaked
hook-bill
hook-billed
hook-collector transistor
hook-handed
hook-headed
hook-nose
hook-nosed
hook-shaped
hook-shouldered
hook-snouted
hook-tipped
hook-up
hooked into
hop flea beetle
hop flour
hop fly
hop froth fly
hop gland
hop grub
hop hornbeam
hop in
hop into
hop jack
hop kiln
hop looper
hop louse
hop meal
hop merchant
hop mildew
hop mold
hop moth
hop off
hop oil
hop plant
hop plant borer
hop sack
hop sacking
hop step and jump
hop to it
hop tree
hop trefoil
hop up
hop-about
hop-garden
hop-o'-my-thumb
hop-o-my-thumb
hop-picker
hop-sack
hop-sacking
hop-shaped
hop-yard
hope against hope
hope and pray
hope chest
hope deferred
hope for
hope for the best
hope in
hope to God
hope to die
hoped-for
hopeful prognosis
hopeless case
hoping against hope
hoplo-
hopped up
hopped-up
hopper barge
hopper car
hopper casement
hopper closet
hopper dredge
hopper frame
hopper light
hopper salt
hopper vent
hopper window
hopper-bottom car
hopper-shaped
hopping John
hopping mad
hopvine moth
hopvine thecla
horehound motherwort
horizon blue
horizon distance
horizon glass
horizontal axis
horizontal bar
horizontal deflector
horizontal engine
horizontal fault
horizontal fire
horizontal line
horizontal mobility
horizontal parallax
horizontal plane
horizontal projection
horizontal stabilizer
horizontal synchronizer
horizontal synchronizing pulse
horizontal union
hormic psychology
hormic theory
horn alligator
horn arrester
horn balance
horn bar
horn bowsprit
hornet comb
hornet fly
hornet's nest
hornless cow
horns of a dilemma
horny coral
horny-fingered
horny-fisted
horny-hoofed
horny-knuckled
horny-nibbed
horny-toad
horror picture
horror vacui
horror-crowned
horror-fraught
horror-inspiring
horror-loving
horror-stricken
horror-struck
hors concours
hors d'oeuvre
hors d'oeuvres
hors de combat
horse aloes
horse ant
horse around
horse artillery
horse bean
horse blanket
horse block
horse boat
horse boot
horse bot
horse bow
horse box
horse brass
horse brier
horse chanter
horse chestnut
horse clipper
horse conch
horse coper
horse courser
horse dam
horse dealer
horse devil
horse doctor
horse drench
horse driver
horse duck
horse elder
horse emmet
horse fiddle
horse fly
horse gentian
horse gentler
horse ginseng
horse godmother
horse gowan
horse guard
horse hoe
horse iron
horse latitudes
horse laugh
horse litter
horse louse
horse mackerel
horse marine
horse master
horse mint
horse mushroom
horse nettle
horse nop
horse of a different color
horse of another color
horse opera
horse parlor
horse pick
horse pistol
horse plum
horse post
horse race
horse racer
horse racing
horse railroad
horse railway
horse rake
horse rasp
horse rough
horse savin
horse scraper
horse sense
horse show
horse sickness
horse soldier
horse sugar
horse tail
horse thistle
horse tick
horse timber
horse towel
horse trade
horse trader
horse trading
horse trainer
horse training
horse wrangler
horse's ass
horse's neck
horse-and-buggy
horse-back
horse-bitten
horse-block
horse-boat
horse-box
horse-boy
horse-bread
horse-breaker
horse-car
horse-chestnut
horse-collar
horse-coper
horse-corser
horse-course
horse-dealing
horse-drawn
horse-eye
horse-faced
horse-fair
horse-fish
horse-flesh
horse-fly
horse-foot
horse-godmother
horse-guard
horse-head
horse-hoe
horse-hoof
horse-hour
horse-jockey
horse-laugh
horse-leech
horse-litter
horse-load
horse-loving
horse-mackerel
horse-marine
horse-master
horse-matcher
horse-mill
horse-mint
horse-nail
horse-owning
horse-play
horse-plum
horse-pond
horse-power
horse-pox
horse-race
horse-radish
horse-scorser
horse-sense
horse-tail
horse-taming
horse-trade
horse-traded
horse-trading
horseback rider
horseback riding
horseflesh ore
horsefoot snipe
horsehair worm
horseless carriage
horsepower-hour
horsepower-year
horseshoe arch
horseshoe back
horseshoe bat
horseshoe crab
horseshoe kidney
horseshoe magnet
horseshoe nail
horseshoe snake
horseshoe-shaped
horsetail agaric
horsetail mushroom
horsetail tree
horsing around
hortatory address
hortus clusus
hortus siccus
hose cart
hose cock
hose company
hose down
hose duck
hose grass
hose hook
hose jacket
hose reel
hose truck
hose-in-hose
hose-net
hosing down
hospital administrator
hospital bed
hospital cleanliness
hospital corner
hospital fever
hospital gangrene
hospital light
hospital lock
hospital room
hospital service contract
hospital ship
hospital staff
hospital station
hospital steward
hospital train
hospital window
hospitalization insurance
host of heaven
host of hell
host plant
hostages to fortune
hostel school
hostess gown
hostess house
hostess-ship
hostile criticism
hostile expedition
hostile personality
hostile reaction
hostile witness
hot about
hot air
hot as blazes
hot as fire
hot as hell
hot as pepper
hot as the hinges of hell
hot atom
hot bath
hot bed
hot blast
hot blood
hot box
hot buttered rum
hot cake
hot cereal
hot chisel
hot chocolate
hot circuit
hot cockles
hot cold-working
hot corner
hot cross bun
hot day
hot diggety
hot dog
hot economy
hot enough to roast an ox
hot flash
hot for
hot galvanizing
hot goods
hot head
hot iron
hot issue
hot items
hot jazz
hot lead
hot lick
hot light
hot line
hot luncheon
hot metal
hot money
hot number
hot off the fire
hot off the griddle
hot off the press
hot off the spit
hot on
hot pack
hot pack method
hot pants
hot pepper
hot place
hot plate
hot pot
hot potato
hot press
hot pursuit
hot roast beef sandwich
hot rod
hot rodder
hot sauces
hot seat
hot shot
hot shower
hot spot
hot spring
hot stuff
hot switch
hot tear
hot temper
hot tip
hot toddy
hot trimmer
hot type
hot under the collar
hot up
hot war
hot water
hot wave
hot weather
hot well
hot wind
hot ziggety
hot-air
hot-air artist
hot-air balloon
hot-air engine
hot-air heat
hot-air heating
hot-air treatment
hot-air-heat
hot-air-heated
hot-blast
hot-blast system
hot-blooded
hot-bloodedness
hot-brained
hot-breathed
hot-bright
hot-broached
hot-bulb engine
hot-cathode tube
hot-cold
hot-deck
hot-dip coating
hot-dipped
hot-dog
hot-dog stand
hot-draw
hot-drawing
hot-drawn
hot-drew
hot-dry
hot-eyed
hot-foot
hot-forged
hot-galvanize
hot-gospeller
hot-headed
hot-hoof
hot-house
hot-house plant
hot-humid
hot-livered
hot-metal typesetting
hot-mettled
hot-mix
hot-moist
hot-pot
hot-press
hot-presser
hot-punched
hot-roll
hot-rolled
hot-short
hot-shortness
hot-shot
hot-spirited
hot-spot
hot-spotted
hot-spotting
hot-stomached
hot-stove league
hot-swage
hot-tempered
hot-vulcanized
hot-water bag
hot-water bottle
hot-water cylinder
hot-water fit
hot-water heater
hot-water heating
hot-water pipe
hot-water-heat
hot-water-heated
hot-windy
hot-wire
hot-wire meter
hot-wire microphone
hot-work
hot-work steel
hotbed sash
hotel broker
hotel detective
hotel lock
hotel manager
hotel rack
hothouse lamb
hotsy-totsy
hotted up
hough-sinew
hound dog
hound on
hound to destruction
hound's tooth
hound's-tongue
hound's-tooth
hound's-tooth check
hound-dog
hound-fish
hound-marked
hounds-berry
houndstooth check
hour after hour
hour angle
hour bell
hour book
hour by hour
hour circle
hour hand
hour line
hour plate
hour stroke
hour watch
hour wheel
hour-circle
hour-glass
hour-long
hourglass figure
hourglass of time
hourglass screw
hourglass spider
hourglass spring
hourglass stomach
hourglass worm
hourglass-shaped
house agent
house and grounds
house and lot
house ant
house arrest
house barge
house built on sand
house car
house cat
house centipede
house chambermaid
house cleaner
house counsel
house crow
house curtain
house decorator
house detective
house dick
house divided against itself
house doctor
house dog
house dove
house drain
house dress
house duty
house factor
house farmer
house finch
house flag
house furnisher
house furnishing
house furnishings
house god
house guest
house holly fern
house in
house wrecker
house wren
house-boat
house-broken
house-builder
house-cap
house-craft
house-dog
house-dove
house-father
house-headship
house-mother
house-place
house-proud
house-raising
house-room
house-search
house-to-house
house-to-house combat
house-top
house-train
house-warming
housed string
household ammonia
household art
household cavalry
household effects
household franchise
household goddess
household gods
household goods
household name
household suffrage
household troop
household troops
household word
household words
household-stuff
housemaid's knee
housey-housey
housing bill
housing development
housing estate
housing problem
housing project
housing scheme
hove to
hover fly
hover hawk
hover over
hovering accent
hovering act
how about that
how are you
how come
how do
how do you do
how does she head
how far
how goes it
how is it that
how is your rudder
how it goes
how it is
how now
how should I know
how the land lies
how the wind blows
how they fall
how things are
how things stack up
how things stand
how you doin'
how's every little thing
how's the world treating you
how's things
how's tricks
how-d'ye-do
how-de-do
how-do-ye
how-do-ye-do
how-do-you-do
how-to
how-to book
howdy-do
however that may be
howgozit curve
howl down
howl like all the devils of hell
howler monkey
howling monkey
howling success
howling wilderness
howling wind
hoyle shooting
hr factor
hr-
hub a dub
hub borer
hub brake
hub braking
hub driller
hub dynamometer
hub maker
hub odometer
hub of industry
hub turner
hub-band
hub-bander
hub-banding
hub-boring
hub-deep
hub-turning
hubba hubba
hubble-bubble
huckle-bone
huddler-mudder
huddle on
hudson seal
hue and cry
hue cycle
huff and puff
huff-cap
huff-duff
huff-shouldered
huff-snuff
hug the coast
hug the earth
hug the land
hug the shore
hug yourself
hug-me-tight
huge-armed
huge-bellied
huge-bodied
huge-boned
huge-built
huge-grown
huge-horned
huge-jawed
huge-limbed
huge-looking
huge-proportioned
huge-tongued
hugger-mugger
hugger-muggeries
hugger-muggery
hula girl
hula hoop
hula skirt
hula-hula
hull balance
hull down
hull efficiency
hull girder
hull insurance
hull up
hull-less
hull-less oat
hulling line
hully gully
hum and haw
hum note
hum tone
hum-bird
human being
human dynamo
human ecology
human engineering
human equation
human error
human factor
human family
human form
human frailty
human geography
human interest
human mountain
human nature
human paleontology
human race
human rights
human sacrifice
human species
human weakness
human wreck
human-headed
human-interest story
humane letters
humane society
humanistic scholarship
humanistic therapy
hunch down
hundred days
hundred per cent
hundred's place
hundred-dollar
hundred-dollar bill
hundred-eyed
hundred-feathered
hundred-footed
hundred-handed
hundred-headed
hundred-leaf
hundred-leaved
hundred-legged
hundred-legs
hundred-mile
hundred-percent
hundred-percent American
hundred-percenter
hundred-pound
hundred-pounder
hundred-to-one shot
hundred-yard dash
hundred-year
hundreds and thousands
hundredth's place
hung jury
hung over
hung up
hung up on
hung-up
hunger after
hunger belt
hunger for
hunger grass
hunger march
hunger marcher
hunger strike
hunger striker
hunger-bit
hunger-bitten
hunger-driven
hunger-mad
hunger-pressed
hunger-starve
hunger-stricken
hunger-stung
hunger-worn
hungry as a bear
hungry mouth
hungry rice
hunk of a man
hunker down
hunky-dory
hunt and peck
hunt board
hunt box
hunt button
hunt down
hunt for
hunt in couples
hunt out
hunt table
hunt the slipper
hunt through
hunt up
hunt's-up
hunter green
hunter trials
hunter's green
hunter's moon
hunter's pink
hunter's robe
hunter-killer submarine
hunting box
hunting cap
hunting case
hunting cat
hunting chair
hunting cry
hunting dog
hunting expedition
hunting ground
hunting horn
hunting knife
hunting leopard
hunting license
hunting lodge
hunting miter
hunting shirt
hunting spider
hunting sword
hunting trip
hunting watch
hunting-ground
huntsman's-cup
hurdle race
hurdle racer
hurdle work
hurdles, the
hurdy-gurdy
hurdy-gurdie
hurdy-gurdies
hurdy-gurdy man
hurdy-gurdyist
hurl a brickbat
hurl against
hurl at
hurl at the head of
hurl defiance
hurl forth
hurl-bone
hurley stick
hurley-hacket
hurly burly
hurly-burly
hurly-burly
hurr-bur
hurrah campaign
hurricane bird
hurricane deck
hurricane globe
hurricane house
hurricane hunter
hurricane lamp
hurricane lantern
hurricane signal
hurricane tracking
hurricane warning
hurricane-decked
hurricane-force wind
hurricane-hunter aircraft
hurricane-proof
hurry about
hurry along
hurry away
hurry call
hurry off
hurry on
hurry through
hurry up
hurry-burry
hurry-scurried
hurry-scurry
hurry-scurrying
hurry-scurried
hurry-skurried
hurry-skurry
hurry-skurrying
hurry-up
hurst beech
hurt the feelings
husband and wife
husband your resources
husband-to-be
hush as death
hush money
hush my mouth
hush of night
hush puppy
hush ship
hush shop
hush tube
hush up
hush your mouth
hush-boat
hush-hush
hush-money
hush-up
hushed attention
hushed-up
husk corn
husk tomato
husk-tomato
husking bee
husking glove
husking peg
husky eater
hustings court
hustle out
hustle up
hustle-cap
hut circle
hut-keep
hut-shaped
hutch table
hutia carabali
hutia conga
hw-
hy-spy
hyacinth bacteriosis
hyacinth bean
hyacinth blue
hyacinth red
hyacinth squill
hyacinth violet
hyacinth-flowered
hyal-
hyaline cartilage
hyaline degeneration
hyaline membrane disease
hyalo-
hyaloid membrane
hyaluronic acid
hybern-
hybrid computer
hybrid corn
hybrid perpetual
hybrid perpetual rose
hybrid stop
hybrid tea
hybrid tea rose
hybrid vigor
hybrid vigour
hybrid word
hydatid cyst
hydatid mole
hydncarpic acid
hydr-
hydrangea blue
hydrargyri subchloridum
hydrated alumina
hydrated lime
hydration number
hydraulic accumulator
hydraulic brake
hydraulic coupling
hydraulic engine
hydraulic engineer
hydraulic fluid
hydraulic jump
hydraulic lift
hydraulic machinery
hydraulic mining
hydraulic motor
hydraulic organ
hydraulic pile
hydraulic power
hydraulic press
hydraulic radius
hydraulic ram
hydraulic servo
hydraulic suspension
hydraulic tailgate
hydraulic torque converter
hydraulic-fill dam
hydraulico-
hydrazo group
hydrazo radical
hydrazoic acid
hydriodic acid
hydro-
hydro-aeroplane
hydro-airplane
hydro-electric
hydro-jet
hydro-pneumatic
hydro-ski
hydro-ureter
hydrobromic acid
hydrocarbon cement
hydrochloric acid
hydrocinnamic aldehyde
hydrocinnamoyl group
hydrocinnamoyl radical
hydrocinnamyl group
hydrocinnamyl radical
hydrocyanic acid
hydroelectric plant
hydroelectric power
hydrofluoric acid
hydrogen arsenide
hydrogen blast
hydrogen bomb
hydrogen bond
hydrogen bromide
hydrogen carbonate
hydrogen chloride
hydrogen cyanide
hydrogen dioxide
hydrogen electrode
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen oxide
hydrogen peroxide
hydrogen selenide
hydrogen silicide
hydrogen sulfide
hydrogen sulphate
hydrogen sulphide
hydrogen sulphite
hydrogen tartrate
hydrogen telluride
hydrogen-bomb
hydrogenated fat
hydrographic chart
hydrographic oceanographic
hydrologic cycle
hydromellitic acid
hydrometric pendulum
hydronium ion
hydrophobia cat
hydrostatic balance
hydrostatic head
hydrosulfurous acid
hydrosulphurous acid
hydrotelluric acid
hydrothermal water
hydroxide ion
hydroxonium ion
hydroxy acid
hydroxy aldehyde
hydroxy ketone
hydroxy-
hydroxyacetic acid
hydroxybenzoic acid
hydroxybutyric acid
hydroxyl group
hydroxyl radical
hydroxysuccinic acid
hyena poison
hyena-dog
hyet-
hyetal wind rose
hyeto-
hygr-
hygro-
hyl-
hylo-
hymeneal rites
hymeno-
hymn book
hymn maker
hymn making
hymn of praise
hymn singer
hymn singing
hymn tune
hymn writer
hymn writing
hymn-loving
hymn-tune
hymnal stanza
hyo-
hyodeoxycholic acid
hyodesoxycholic acid
hyoid bone
hyp-
hypabyssal rock
hyped up
hyper-
hyper-Dorian
hyperbaric therapy
hyperbolic function
hyperbolic geometry
hyperboreal blast
hyperborean blast
hyperchromic anemia
hypercomplex number
hyperemesis gravidarum
hyperesthesia theory
hyperfine structure
hyperfocal distance
hypergeometric distribution
hypergeometric equation
hypergeometric function
hyperplastic inflammation
hypersonic speed
hypertensive heart disease
hypertrophic arthritis
hypertrophic inflammation
hyphenated American
hypn-
hypnagogic image
hypno-
hypnotic sleep
hypnotic somnolence
hypnotic suggestion
hypnotic trance
hypo ionic mode
hypo-
hypo-alum
hypo-ovarianism
hypoaeolian mode
hypoantimonic acid
hypochlorous acid
hypochromic anemia
hypocotyl arch
hypocrite plant
hypodermic injection
hypodermic needle
hypodermic syringe
hypodermic tablet
hypodorian mode
hypodynamia cordis
hypogastric artery
hypoglossal nerve
hypoglycemic shock
hypoglycemic shock therapy
hypoid gear
hypoionian mode
hypolocrian mode
hypolydian mode
hypomixolydian mode
hyponitrous acid
hypophosphoric acid
hypophosphorous acid
hypophrygian mode
hypophysis cerebri
hypoplastic anemia
hypospray injection
hyposulfurous acid
hyposulphurous acid
hypothecated stock
hypothesis ad hoc
hypothesis and verification
hypothetical imperative
hypothetico-disjunctive
hyp-
hypsi-
hypo-
hyraci-
hyson skin
hyssop loosestrife
hyssop oil
hyssop skullcap
hyssop spurge
hyssop violet
hyssop-leaved
hyst-
hyster-
hysteresis coefficient
hysteresis curve
hysteresis loop
hysteresis loss
hysteresis meter
hysteria libidinosa
hysteria-proof
hysterical aphonia
hysterical epilepsy
hysterical fever
hysterical mutism
hystero-
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysteron proteron
hysteron-proteron
i beam
i-
i-come
i-cried
i-fere
i-type semiconductor
ia-
iambic pentameter
iatro-
iatrogenic disease
ibn-Batuta
ibn-Rushd
ibn-Saud
ibn-Sina
ice age
ice anchor
ice apron
ice ax
ice axe
ice bag
ice banner
ice barrier
ice beam
ice bear
ice belt
ice bird
ice bridge
ice bucket
ice bulletin
ice calorimeter
ice canoe
ice cap
ice cave
ice chest
ice chipper
ice chopper
ice claw
ice code
ice collar
ice color
ice concrete
ice cream
ice creeper
ice crusher
ice crystal
ice crystals
ice cube
ice cuber
ice cubes
ice cutter
ice dealer
ice dike
ice dock
ice drag
ice duck
ice feathers
ice fern
ice field
ice fish
ice fishing
ice floe
ice flower
ice flowers
ice fog
ice foot
ice fork
ice fox
ice front
ice glass
ice gorge
ice gull
ice gush
ice hockey
ice hook
ice house
ice island
ice jam
ice lance
ice-house
ice-imprisoned
ice-island
ice-laid
ice-locked
ice-master
ice-mountain
ice-plant
ice-plough
ice-scoured
ice-sheet
ice-skate
ice-skated
ice-skating
ice-work
iceberg lettuce
icebox cake
iced coffee
iced tea
iced-tea spoon
iceland moss
iceland poppy
iceland spar
ich dien
ichn-
iche numeron fly
ichneumon-
ichthy-
icthyo-
icthyophthirius disease
icing sugar
icon-
iconic memory
icono-
icos-
icterus index
icy blasts
icy calm
icy clutch of dread
icy fingers of dread
icy nerves
icy pole
icy wind
icy-cold
id est
idea afloat
idea man
idea of pure reason
idea of reference
idea, the
ideal element
ideal gas
ideal gas equation or law
ideal gas law
ideal of pure reason
ideal point
ideal specific impulse
ideal type
idee fixe
idee-force
idee-maitresse
identical equation
identical proposition
identical rhyme
identical same
identical twin
identical twins
identification badge
identification bracelet
identification light
identification mark
identification parade
identification space
identification tag
identification thread
identified as
identify with
identify yourself with
identity card
identity crisis
identity matrix
identity theory of mind
ideo-
ideo-unit
ideogrammatic character
ideogrammatic symbol
ideogrammic character
ideogrammic symbol
ideographic character
ideographic symbol
ideopathic epilepsy
ides of March
idio-
idiom dictionary
idiomorphic-granular
ie-
ier-oe
if and only if
if and when
if at all
if ever
if humanly possible
if it be so
if it be true that
if it should happen that
if it so happens
if it turns out
if necessary
if need be
if not
if only
if possible
if worst comes to worst
if you please
if you wish
if-clause
ife hemp
ignatius' bean
igneous rock
ignes fatui
igni-
ignis fatuous
ignis fatuus
ignition cable
ignition cap
ignition charge
ignition key
ignition point
ignition temperature
ignition tube
ignoble vulgus
ignominious defeat
ignoratio elenchii
ignore grammar
ignore it
ignore opportunity's knock
ignotum per ignotius
ikrar-namah
il Duce
il-
ilang-ilang
ile-
ilio-
ill-annexed
ill-armed
ill-arranged
ill-assimilated
ill-assorted
ill-assorted marriage
ill-at-ease
ill-balanced
ill-balanced sentences
ill-befitting
ill-begotten
ill-behaved
ill-being
ill-beseeming
ill-bested
ill-boding
ill-born
ill-borne
ill-breathed
ill-bred
ill-bred fellow
ill-built
ill-calculating
ill-cared
ill-celebrated
ill-cemented
ill-chosen
ill-clad
ill-cleckit
ill-coined
ill-colored
ill-come
ill-comer
ill-composed
ill-concealed
ill-conceived
ill-concerted
ill-conditioned
ill-conditionedness
ill-conducted
ill-considered
ill-consisting
ill-contented
ill-contenting
ill-contrived
ill-cured
ill-customed
ill-deedy
ill-defined
ill-definedness
ill-devised
ill-digested
ill-directed
ill-disciplined
ill-disposed
ill-disposedness
ill-dissembled
ill-doing
ill-done
ill-drawn
ill-dressed
ill-educated
ill-effaceable
ill-equipped
ill-erected
ill-executed
ill-famed
ill-faried
ill-faring
ill-faringly
ill-fashion
ill-favored
ill-favoredly
ill-favoredness
ill-favoured
ill-favouredly
ill-favouredness
ill-featured
ill-fed
ill-fitted
ill-fitting
ill-flavored
ill-foreseen
ill-formed
ill-found
ill-founded
ill-friend
ill-furnished
ill-gauged
ill-gendered
ill-given
ill-got
ill-met
ill-minded
ill-mindedly
ill-mindedness
ill-natured
ill-naturedly
ill-naturedness
ill-neighboring
ill-noised
ill-nurtured
ill-observant
ill-occupied
ill-omened
ill-omenedness
ill-paid
ill-perfuming
ill-persuaded
ill-placed
ill-pleased
ill-proportioned
ill-provided
ill-qualified
ill-regulated
ill-requite
ill-required
ill-resounding
ill-rewarded
ill-roasted
ill-rulled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
ill-seen
ill-served
ill-set
ill-shaped
ill-smelling
ill-sorted
ill-sounding
ill-spent
ill-spun
ill-starred
ill-strung
ill-succeeding
ill-suited
ill-suiting
ill-supported
ill-tasted
ill-taught
ill-tempered
ill-temperedly
ill-temperedness
ill-time
ill-timed
ill-tongued
ill-treat
ill-treated
ill-treater
ill-treatment
ill-tuned
ill-turned
ill-understood
ill-usage
ill-use
ill-used
ill-using
ill-ventilated
ill-weaved
ill-wedded
ill-willed
ill-willer
ill-willie
ill-willing
ill-willy
ill-wish
ill-wisher
ill-won
ill-worded
ill-written
ill-wrought
ill-yoked
illegal commerce
illegal operations
illegal traffic
illegible handwriting
illegitimate business
illegitimate child
illicit business
illicit businessman
illicit love
illipe butter
illiterate speech
ills the flesh is heir to
illuminating engineer
illuminating engineering
illuminating gas
illuminating oil
illuminating projectile
illupi oil
illusion-proof
im-
image breaker
image breaking
image converter
image dissector
image iconoscope
image intensifier
image orthicon
image space
image tube
image worship
image-breaker
image-breaking
image-maker
image-matched input resistance
image-matched output resistance
image-worship
imageless thought
imagery study
imaginal bud
imaginal disk
imaginal type
imaginary axis
imaginary invalid
imaginary number
imaginary part
imaginary unit
imagination-proof
imaginative exercise
imagist verse
imagistic poetry
imb-
imbibition process
imbricato-
imbue with life
imbued with
imbued with life
imide chloride
imido group
imido radical
imino ester
imino group
imino radical
imitation doublet
imitation fur
imitation leather
imitation vermillion
imitation-proof
imitative magic
immaculate conception
immanent cause
immature personality
immaturity reaction
immediate annuity
immediate cause
immediate cognition
immediate communication
immediate constituent
immediate constituent analysis
immediate dislike
immediate foreground
immediate future
immediate neighbor
immediate prospect
immediate purpose
immediate resources
immediately if not sooner
immemorial usage
immense number
immersed in
immersed in thought
immersion foot
immersion heater
immersion lens
immersion scale
immolate before
immortal hand
immortal name
immovable feast
immune body
immune globulin
immune serum
immunity theory
immunization therapy
immuno-
immunosuppressive drug
imou pine
imp gal
imp-pole
impact area
impact parameter
impact pressure
impact test
impact theory
impaired hearing
impairment of motor function
impairment of speech
impanel a jury
impartial arbitrator
impatient of
impatient of control
impatient of discipline
impedance coil
impedance component
impedance drop
impedance matching
impedance ratio
impedient impediment
impelling force
impend over
imperceptible duration
imperfect cadence
imperfect competition
imperfect contrition
imperfect flower
imperfect fungus
imperfect knowledge
imperfect number
imperfect rhyme
imperfect speech
imperfect usufruct
imperfect vision
imperfectly spoken
imperial Brussels
imperial eagle
imperial elephant
imperial gallon
imperial jade
imperial mammoth
imperial moth
imperial octavo
imperial purple
imperial quarto
imperialist threat
imperially slim
imperium in imperio
impersonal verb
impervious to
impervious to light
impervious to persuasion
imperviousness to light
impinge on the eye
impinge on your consciousness
impingement attack
impious person
implant in
implantation cone
implicate yourself
implicated in
implicit belief
implicit consent
implicit differentiation
implicit function
implicit function theorem
implied contract
implied meaning
implied threat
implore counsel
implore mercy
import credit
import tax
important person
important persons
important point
important thing
imported currantworm
imported wine
impose a penalty on
impose on
impose on you for
impose upon
impose your will
imposing an onus
imposing stone
imposing table
imposition of hands
impost block
impress forcibly
impress on the mind
impress upon
impress upon the memory
impress upon the mind
impressed by
impressed with
impressed with yourself
improper fraction
improper integral
improper suggestion
improve each shining hour
improve on
improve the mind
improve the occasion
improve the shining hour
improve upon
improve your mind
improvement lease
improvement purchase
improving the mind
improvisational drama
imprudent step
impudent person
impulse buying
impulse duct engine
impulse excitation
impulse face
impulse movement
impulse of life
impulse recorder
impulse roller
impulse transformer
impulse turbine
impurity atom
impute shame to
impute to
in Abraham's bosom
in Argolis
in Davy Jones's locker
in Dutch
in God's good time
in Indian file
in NW Africa
in Queer Street
in Sunday best
in Technicolor
in a backwater
in a bad humor
in a bad way
in a beeline
in a big way
in a bind
in a bit
in a blaze
in a blue funk
in a body
in a bondman's key
in a bother
in a botheration
in a box
in a capsule
in a chain
in a chorus
in a circle
in a class by itself
in a cloud
in a corner
in a crescendo
in a dark corner
in a daze
in a dead calm
in a delicate condition
in a different manner
in a dilemma
in a direct line
in a dither
in a fair manner
in a fair way
in a fair way to
in a fashion
in a ferment
in a fever
in a few words
in a fix
in a flash
in a flurry
in a fluster
in a flutter
in a fog
in a foofaraw
in a frenzy of desire
in a fright
in a fume
in a funk
in a fury
in a fury of desire
in a glow
in a good
in a good mood
in a good state of preservation
in a groove
in a haze
in a hole
in a hole-and-corner way
in a huddle
in a huff
in a hurry
in a jam
in a jiff
in a jiffy
in a jumble
in a lather
in a lather of haste
in a line
in a line for
in a little bit
in a little while
in a manner
in a manner of speaking
in a maze
in a measure
in a mess
in a minute
in a mist
in a moment
in a muck of a sweat
in a muddle
in a nice pickle
in a nutshell
in a panic
in a passion
in a pet
in a pickle
in a pig's eye
in a position to
in a pother
in a predicament
in a pretty pass
in a pretty pickle
in a pucker
in a quandary
in a quiver
in a rage
in a reverie
in a roundabout way
in a row
in a rush
in a rut
in a scrape
in a second
in a sense
in a series
in a shake
in a shocking humor
in a short time
in a short while
in a small compass
in a small way
in a smart-alecky way
in a smart-ass fashion
in a sorry plight
in a sound sleep
in a spin
in a spot
in a squirrel cage
in a stable state
in a state
in a state of nature
in a state of suspense
in a stew
in a straight line
in a stupor
in a sweat
in a sweat of haste
in a swivet
in a temper
in a tight spot
in a tizzy
in a trance
in a transport
in a transport of delight
in a trice
in a tumble
in a turmoil
in a twink
in a twinkling
in a twitter
in a watery bier
in a watery grave
in a wax
in a way
in a while
in a whirl
in a whisper
in a wink
in a word
in abeyance
in absentia
in abstracto
in abundance
in accord
in accordance
in accordance with
in action
in actuality
in addition
in addition to
in adjustment
in admiration
in advance
in advance of
in advance of your age
in adverse circumstances
in aeternum
in aftertime
in agreement
in agreement with
in aid of
in alarm
in all
in all ages
in all conscience
in all creation
in all directions
in all directions at once
in all fairness
in all haste
in all its intensity and color
in all likelihood
in all manner of ways
in all places
in all probability
in all quarters
in all reason
in all respects
in all seriousness
in all sobriety
in all your born days
in alt
in altissimo
in amazement
in ambuscade
in ambush
in amends
in an aside
in an evil hour
in an instant
in an uncertain state
in an undertone
in an unguarded moment
in an uproar
in ancient times
in and in
in and out
in anger
in another way
in answer
in anticipation
in anticipation of
in antis
in any case
in any event
in any possible way
in any way
in apple-pie order
in apposition
in armor
in arms
in arrear
in arrears
in articulo mortis
in ascendancy
in association
in association with
in astonishment
in at the death
in atonement
in authority
in awe
in awe of
in back of
in bad
in bad humor
in bad odor
in bad odor with
in bad repute
in bad spirits
in bad taste
in bad with
in balance
in balk
in ballast
in banc
in banco
in base
in battle array
in bed
in bedrock
in behalf of
in being
in bend
in between
in bewilderment
in bits
in bits and pieces
in black and white
in bloom
in blossom
in blue water
in board
in bold relief
in bondage
in bonds
in brief
in brief compass
in broad daylight
in broad terms
in brodo
in buckram
in bud
in bulk
in cahoot
in cahoots
in camera
in captivity
in case
in case of
in case that
in cash
in chains
in chambers
in chancery
in character
in charge
in charge of
in check
in chevron
in chief
in childbed
in chorus
in circles
in circulation
in closed meeting
in clover
in cold blood
in collaboration
in collision
in collusion
in color
in column
in combat
in comfort
in command
in commemoration
in commemoration of
in commendam
in commission
in common
in company
in company with
in comparison with
in compensation
in competition
in complete steel
in compliance with
in complicity
in concert
in concert with
in conclave
in conclusion
in concord
in condition
in conference
in confidence
in confinement
in confirmation
in conflict with
in conformity with
in conformity with the evidence
in conformity with the facts
in confrontation
in confusion
in conjunction
in conjunction with
in connection with
in conscience
in consequence
in consequence of
in consideration
in consideration of
in consternation
in consultation
in contact
in contact with
in contemplation of
in contempt
in contempt of
in contradiction
in contrast with
in control
in cooperation
in cooperation with
in corpore
in correspondence to
in corroboration of
in costume
in council
in course of preparation
in court
in crowds
in curve
in custody
in danger
in danger imminent
in danger of
in darkness
in days of yore
in debate
in debt
in deep
in deep water
in default
in default of
in defense
in deference to
in defiance of
in demand
in denial
in depth
in despair
in desperate case
in desperate straits
in despite of
in detail
in detention
in diapers
in difficulties
in difficulty
in disagreement
in disagreement with
in disarray
in discredit
in disdain
in disfavor
in disgrace
in disguise
in dishabille
in disorder
in dispute
in disrepair
in disrepute
in distress
in double harness
in double time
in double-quick time
in doubt
in driblets
in dribs and drabs
in dubio
in due course
in due form
in due season
in due time
in dumb show
in duplicate
in durance vile
in duty bound
in earnest
in ease
in eclipse
in ecstasies
in ecstasy
in effect
in either case
in embarrassed circumstances
in embryo
in epitome
in equal shares
in equilibrio
in equilibrium
in equipoise
in equity
in error
in escrow
in esse
in essence
in every clime
in every direction
in every hole and corner
in every instance
in every nook and cranny
in every place
in every quarter
in every region
in every respect
in every your mouth
in everyone's mouth
in evidence
in excess
in excess of
in exchange
in executive session
in exercise
in existence
in expectation
in explanation
in extenso
in extremis
in extremities
in fact
in faith
in fashion
in fault
in favor
in favor of
in fear
in fear and trembling
in fear of your life
in fee
in fee simple
in fess
in file
in fine
in fine feather
in fine fettle
in fine shape
in fine whack
in fits and starts
in flagrante delicto
in flames
in flat opposition
in flight
in flood
in flower
in focus
in for it
in force
in foreign parts
in forma pauperis
in frame
in front
in front of
in full
in full bloom
in full cry
in full dress
in full feather
in full force
in full measure
in full sail
in full swing
in full view
in fun
in funds
in furtherance of
in future
in futuro
in gear
in general
in general terms
in glory
in glowing terms
in good case
in good condition
in good earnest
in good faith
in good form
in good health
in good heart
in good odor
in good part
in good season
in good set terms
in good shape
in good spirits
in good supply
in good taste
in good time
in good trim
in good truth
in good with
in great measure
in grief
in half
in half a jiffy
in half a mo
in half a shake
in half measures
in halves
in hand
in harbor
in harmony
in harmony with
in harness
in haste
in haste like a snail
in health
in heaps
in heat
in heaven
in hell
in hellfire
in hiding
in hidlings
in high
in high dudgeon
in high esteem
in high estimation
in high favor
in high feather
in high gear
in high relief
in high spirits
in historic times
in hoc
in hoc signo vinces
in hock
in hold
in holes and corners
in holy orders
in honor of
in hopes
in hospital
in hostile array
in hot blood
in hot haste
in hot pursuit
in hot water
in hysterics
in idea
in ignorance of
in imitation of
in infinitum
in installments
in irons
in its entirety
in its infancy
in its own way
in its place
in its stead
in itself
in jeopardy
in jest
in joke
in justice
in juxtaposition
in keeping
in keeping with
in kelter
in kilter
in kind
in large
in layers
in leading strings
in leaf
in league
in leash
in length
in less than no time
in letters of fire
in lieu
in lieu of
in like manner
in limine
in line
in line of duty
in line with
in liquor
in litigation
in little
in loc cit
in lock-step with
in loco
in loco parentis
in longhand
in lots
in love
in love with
in low gear
in low relief
in low spirits
in luck
in lure
in luxury
in majority
in many instances
in march time
in measure
in medias res
in medium
in mem
in memoriam
in memory of
in mesh
in mid
in mid-progress
in miniature
in mint condition
in moderation
in mortal fear
in mothballs
in motion
in mourning
in must
in naked beauty more adorned
in name only
in nappies
in narrow circumstances
in native buff
in nature's garb
in need
in need of rest
in negligee
in no case
in no long time
in no place
in no respect
in no time
in no uncertain terms
in no way
in no wise
in nomine
in nothing flat
in numbers
in obedience to
in olden times
in omnia paratus
in one way or another
in one word
in open court
in operation
in opposition
in opposition to
in order
in order that
in order to
in orders
in ordinary
in orle
in other respects
in other ways
in other words
in our time
in outline
in ovo
in pain
in pais
in pale
in pantomime
in paradise
in parallel
in pari delicto
in part
in partibus
in particular
in partnership
in passage to
in passing
in pawn
in pectore
in pendentive
in penury
in peril
in perpetual remembrance
in perpetuity
in perpetuum
in person
in personam
in petto
in phase
in pieces
in place
in place of
in places
in plain English
in plain sight
in plain style
in plain terms
in plain view
in plain words
in play
in plenty
in point
in point of
in point of fact
in poor health
in poor taste
in port
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in praesenti
in preference
in preference to
in prehistoric times
in preparation
in preparation for
in pretense
in principle
in print
in prison
in privacy
in private
in private conference
in privy
in process
in production
in profusion
in progress
in proper season
in proper time
in proportion
in propria persona
in prose
in prospect
in public
in public view
in purdah
in puris naturalibus
in pursuance of
in retribution
in retrospect
in return
in revenge
in reverse
in reward
in rhythm
in rivalry
in rotation
in round numbers
in round terms
in ruins
in russet mantle clad
in rut
in sackcloth and ashes
in saecula saeculorum
in safety
in sail
in scorn
in search of
in season
in season and out of season
in seclusion
in secrecy
in secret
in secret meeting
in seed
in seeming
in seisin
in self-defense
in sequence
in series
in service
in session
in set form
in set phrases
in set terms
in seven-league boots
in seventh heaven
in shape
in shards
in shelter
in shore
in short
in short order
in short supply
in shorthand
in shreds
in sickness and in health
in sight
in silence
in single file
in sinu Abraham
in situ
in slavery
in slow motion
in slow tempo
in small doses
in smitherens
in snatches
in so far
in so far as
in so many words
in society
in solido
in solidum
in solitude
in solution
in some measure
in some place
in some such way
in some way
in some way or other
in sooth
in soundings
in spades
in spate
in specie
in spite
in spite of
in spite of yourself
in spitting distance
in sport
in spots
in statu quo
in step
in step with
in stir
in stock
in store
in straitened circumstances
in strict confidence
in strong relief
in stud
in style
in subjection
in substance
in succession
in such wise
in sum
in summary
in supply
in support
in suspense
in suspension
in swaddling clothes
in swarms
in sync
in synchronization
in tails
in tatters
in tears
in tempo
in terror
in terrorem
in terrorem clause
in that
in that case
in that event
in that instance
in that neighborhood
in that place
in that vicinity
in that way
in the Christian Era
in the Common Era
in the absence of
in the abstract
in the act
in the act of
in the affirmative
in the aftermath
in the age of
in the aggregate
in the air
in the aisle
in the altogether
in the arms of Morpheus
in the ascendant
in the background
in the bag
in the balance
in the beginning
in the best taste
in the black
in the blood
in the bloom of youth
in the bosom of the lodge
in the bosom of your family
in the bud
in the buff
in the can
in the cannon's mouth
in the cards
in the care of
in the center of
in the chains
in the charge of
in the chips
in the circumstances
in the clear
in the clouds
in the clover
in the clutches
in the cold
in the contingency that
in the course of
in the course of business
in the course of things
in the course of time
in the cradle
in the crib
in the dark
in the dark of night
in the dead of night
in the depths
in the direction of
in the distance
in the doghouse
in the doldrums
in the doleful dumps
in the driver's seat
in the dumps
in the dust
in the era of
in the event of
in the event that
in the extreme
in the eye of the wind
in the eyes of
in the eyes of the law
in the face of
in the face of day
in the face of death
in the face of heaven
in the family way
in the field
in the fire
in the first place
in the flesh
in the flower of youth
in the forefront
in the foreground
in the fourth place
in the front
in the fullness of time
in the future
in the gaseous state
in the glare of publicity
in the good old days
in the grand style
in the grave
in the grave six feet under
in the groove
in the gross
in the gutter
in the habit of
in the hands of
in the heart
in the heat of passion
in the highest degree
in the hole
in the hopper
in the humor
in the immediate future
in the interest
in the interim
in the intervening time
in the jaws of death
in the know
in the land of Nod
in the land of the living
in the lap of Morpheus
in the large
in the latest mode
in the latest style
in the lead
in the light of
in the limelight
in the limits of
in the line of duty
in the long run
in the lump
in the main
in the majority
in the making
in the market
in the market for
in the marketplace
in the marts of trade
in the mass
in the matter of
in the mean
in the meantime
in the meanwhile
in the melting mood
in the memory of man
in the middle
in the middle of
in the middle of the road
in the midst of
in the midst of battle
in the mind
in the mode
in the money
in the mood
in the morning
in the name of
in the natural way of things
in the near future
in the negative
in the neighborhood
in the neighborhood of
in the news
in the nick of time
in the night
in the nursery
in the offing
in the old days
in the olden time
in the open
in the open air
in the opinion of
in the oven
in the past
in the pink
in the pink of condition
in the pipeline
in the place of
in the plenitude of power
in the presence of
in the process of
in the process of time
in the public eye
in the raw
in the rear
in the red
in the remote distance
in the right
in the rough
in the saddle
in the same boat
in the same breath
in the same category
in the same manner
in the same way as
in the same words
in the second instance
in the second place
in the secret
in the semblance of
in the sequel
in the service of
in the shade
in the shadow of a rock
in the singular
in the small
in the soup
in the spotlight
in the state of nature
in the stead of
in the sweet by-and-by
in the swim
in the teeth of
in the teeth of the wind
in the thick of
in the thick of combat
in the thick of the fray
in the third place
in the thoughts
in the time of
in the train of
in the twinkling of an eye
in the usual course
in the van
in the vein
in the very act
in the very grain
in the vicinity
in the vicinity of
in the wake of
in the way
in the white
in the whole wide world
in the wide world
in the wind
in the wind's eye
in the wings
in the womb of time
in the works
in the world
in the worst way
in the wrong
in the wrong box
in the wrong pew
in the wrong place
in the year of our Lord
in theory
in there with
in these days
in this day and age
in this place
in this vicinity
in this way
in those parts
in throngs
in time
in times gone by
in times past
in torment
in toto
in tow
in trans
in transit
in transit to
in transitu
in trim
in triplicate
in triumph
in trouble
in trust
in truth
in tune
in turn
in turns
in twain
in two
in two shakes
in two shakes of a lamb's tail
in two words
in uniformity with
in unison
in unison with
in use
in utero
in vacuo
in vain
in various places
in velvet
in very sooth
in very truth
in view
in view of
in view of the fact that
in vino veritas
in violation of law
in virtue of
in vitro
in vivo
in vogue
in want
in want of
in way of
in what condition
in what manner
in what period
in what place
in what way
in which place
in which time
in white tie and tails
in with
in wonder
in words of one syllable
in words to that effect
in working order
in writing
in years
in your armor
in your bad books
in your behalf
in your best bib and tucker
in your birthday suit
in your black books
in your book
in your books
in your charge
in your chest
in your clutches
in your control
in your cups
in your element
in your employ
in your estimation
in your eye
in your favor
in your good
in your good books
in your good graces
in your grasp
in your grip
in your hands
in your heart of hearts
in your inmost thoughts
in your opinion
in your own hand
in your own interest
in your own person
in your own right
in your own sweet way
in your own way
in your pay
in your place
in your pocket
in your possession
in your power
in your prime
in your right mind
in your second childhood
in your shell
in your shirt sleeves
in your shirt-sleeves
in your shoes
in your sleeve
in your sober senses
in your stead
in your stocking feet
in your teens
in your thinking
in your tracks
in-quarto
in-sail
in-service
in-service training
in-the-wool
in-to-out
in-toed
in-tray
inability to believe
inactive market
inactive stock
inactive war
inaugural address
inauguration day
inboard profile
inboard-outboard motor
inboard-rigged
inborn aptitude
inborn capacity
inborn predisposition
inborn proclivity
inborn susceptibility
inborn tendency
incandescent body
incandescent electric lamp
incandescent lamp
incandescent light
incandescent lighting
incandescent mantle
incandescent point
incapable of
incapable of life
incarnations of
incasement theory
incendiary antiaircraft rocket
incendiary bomb
incendiary grenade
incendiary rocket
incense boat
incense burner
incense cedar
incense juniper
incense resin
incense shrub
incense tree
incense wood
incense-breathing
incense-breathing morn
incentive pay
incentive wage
inch along
inch by inch
inch forward
inch mast
inch of mercury
inch plant
inch rule
inch your way up
inch-deep
inch-high
inch-long
inch-pound
inch-thick
inch-ton
inch-wide
incidence wire
incident light
incident light meter
incident to
incidental information
incidental music
incidental note
incidental power
incidental remark
incidental to
inciso-
incisor foramen
incito-motor
inclination compass
inclination of the balance
inclination of the head
inclination to believe
inclinatory needle
incline an ear to
incline plane
incline the head
incline toward
incline towards
incline your ear
inclined engine
inclined plane
inclined railway
incriminating evidence
incubation patch
incubation period
incubator baby
incubator bird
incumbent on
incumbent upon
incur a debt
incur a responsibility
incur costs
incur danger
incur discredit
incur disesteem
incur disgrace
incur dishonor
incur expenses
incur loss
ind-
indanthrene blue
inde blue
indebted to
indecent assault
indecent exposure
indecent proposal
indefinite article
indefinite integral
indefinite number
indefinite pronoun
indefinite quantities
indefinite space
indelibly impressed
indelibly impressed on the mind
indelicate language
indemnity bond
indentured servant
independence day
independence of path
independent assortment
independent clause
independent of
independent of your will
independent school
independent variable
independent-seCONDS watch
independently rich
independently wealthy
indeterminacy principle
indeterminate sentence
indicator card
indicator diagram
indicator plant
indicator telegraph
indicator tube
indices Librorum Prohibitorum
indicial equation
indignant displeasure
indignation meeting
indignation-proof
indigo auxiliary
indigo bird
indigo blue
indigo broom
indigo brown
indigo bunting
indigo bush
indigo carmine
indigo copper
indigo dyer
indigo extract
indigo finch
indigo grinder
indigo maker
indigo plant
indigo printing
indigo snake
indigo thorn
indigo weed
indigo white
indigo-bearing
indigo-bird
indigo-blue
indigo-dyed
indigo-grinding
indigo-plant
indigo-producing
indigo-white
indigo-yielding
indirect authority
indirect costs
indirect course
indirect discourse
indirect evidence
indirect infection
indirect initiative
indirect labor
indirect lighting
induction coil
induction compass
induction current
induction furnace
induction generator
induction hardening
induction heat
induction heater
induction heating
induction heating machine
induction instrument
induction machine
induction meter
induction motor
induction regulator
induction top
inductive capacity
inductive method
inductive reactance
inductive reasoning
inducto-
inductor alternator
inductor compass
inductor generator
indulge in
indulge in easy vices
indulge in wish-fulfillment
indulge with
indulge your appetite
indulge your appetites
indulge yourself
indurated clay
industrial action
industrial archaeology
industrial art
industrial arts
industrial chemistry
industrial design
industrial designer
industrial disease
industrial economy
industrial engineer
industrial engineering
industrial estate
industrial instrumentation
industrial insurance
industrial life insurance
industrial medicine
infectious granuloma
infectious hepatitis
infectious keratitis
infectious laryngotracheitis
infectious mononucleosis
infectious myxomatosis
inferior article
inferior court
inferior goods
inferior horse
inferior maxillary
inferior personality
inferior planet
inferiority complex
infernal machine
infernal pit
infernal regions
infero-
infield fly
infiltration gallery
infiltration vein
infinite baffle
infinite duration
infinite goodness
infinite integral
infinite justice
infinite love
infinite mercy
infinite power
infinite product
infinite regress
infinite series
infinite space
infinite spirit
infinite truth
infinite wisdom
ininitely continuous
ininitely extended
infinitesimal calculus
infinitive clause
infinitive marker
infinitive phrase
infinito-
infinito-absolute
infinito-infinitesimal
infinity plug
infirm of purpose
infirm of will
infirm old age
infirmity of age
infirmity of purpose
infirmity of will
inflame with love
inflammable material
inflammatory rheumatism
inflatable slide
inflate prices
inflationary gap
inflationary pressure
inflationary prices
inflationary spiral
inflationary trend
inflationist period
inflection of voice
inflection point
inflexible will
inflict a penalty on
inflict capital punishment
inflict on
inflict pain
inflict upon
influence machine
influence peddler
influence peddling
influence user
influential person
influential persons
inform against
inform on
informa pauperis
informal English
informal agreement
informal language
informal school
informal speech
informal standard speech
informal vote
information against
information center
information explosion
information machine
information media
information medium
information retrieval
information science
information storage
information theory
informatory double
informed in
informed of
informing gun
infra dig
infra dignitatem
infra indignitatem
infra praesidia
infra-
infra-anal
infra-angelic
infra-auricular
infra-axillary
infra-esophageal
infra-red
infra-umbilical
infrared beam projector
infrared broiler
infrared cooker
infrared gas and liquid analyzer
infrared heater
infrared lamp
infrared photography
infrared ray
infrared spectroscopy
infrared telescope
infrared therapy
infrarontgen ray
infringe a copyright
infringement of copyright
infuse life into
infusion process
infusorial earth
ingle cheek
ingle nook
ingle-bred
inglorious defeat
ingot chipper
ingot cutter
ingot forger
ingot heater
ingot iron
ingot lathe
ingot maker
ingot weigher
ingrain carpet
ingratiate yourself
innate immunity
innate proclivity
innato-
inner arbiter
inner automorphism
inner bar
inner barrister
inner circle
inner city
inner ear
inner essence
inner form
inner jib
inner landscape
inner life
inner light
inner man
inner mechanism
inner mission
inner nature
inner planet
inner product
inner reality
inner recess
inner recesses of the heart
inner recesses of the mind
inner self
inner space
inner station
inner tube
inner workings
inner-city
inner-directed
inner-directed person
inner-directedness
inner-direction
innermost being
innermost recesses
innermost recesses of the heart
innerspring mattress
innocent as a lamb
innocent person
innocent tumor
innocent within
innominate artery
innominate bone
innominate vein
innovation-proof
ino-
inofficious testament
inofficious will
inordinate desire
inorganic chemical
inorganic chemistry
inorganic fertilizer
inorganic matter
inorganic substance
inorganized matter
inositol-hexaphosphoric
inositol-hexaphosphoric acid
inp-
inpatient clinic
input conductance
input current
input data
input oscillation
input quantity
input resistance
input voltage
input-output analysis
input-output device
inquire after
inquire for
inquire into
inquire of
inquire onto
inquiring mind
inquiry agent
inquiry into
inquiry into first causes
ins and outs
insane asylum
insanity curing
insanity-proof
insatiable desire
inscribe in the memory
inscribe yourself
insculp'd upon
insect bed
insect flower
insect lime
insect orchis
insect powder
insect sound
insect wax
insect-eating
insect-eating bird
insectivorous bat
insensible to
insensible to the past
inseparable friend
insert in
inset initial
inside and out
inside clinch
inside dope
inside forward
inside information
inside job
inside loop
inside man
inside of
inside out
inside parts
inside straight
inside track
inside wire
inside-out
insigne cum laude
insignia of arm
insignia of branch
insignia of rank
insincere argument
insinuate in
insinuate yourself
insinuate yourself into
insist on
insist upon
insistent demand
insomuch as
insolvency statute
insolvent debtor
insomnia-proof
insomniac
inspect the books
inspection chamber
inspection gauge
inspector general
inspector of taxes
inspire belief
inspire confidence
inspire hope
inspire respect
inspired leader
inspiriting force
inspiriting power
inspiriting principle
instability line
installment bond
installment buying
installment credit
installment loan
installment mortgage
installment plan
installment selling
instance court
instance side
instant replay
instantaneous sound pressure
instead of
instinct for
instinct with life
institute an inquiry
institute of technology
institution of higher learning
instruction card
instruction-proof
instrument board
instrument carrier
instrument flight
instrument flight rules
instrument flying
instrument in proof
instrument instrumentality
instrument lamp
instrument landing
instrument landing system
instrument light
instrument of execution
instrument of punishment
instrument of torture
instrument panel
instrument rocket
instrument servo
instrument transformer
instrumental conditioning
instrumental logic
instrumental music
instrumental score
instruments of
instruments of destruction
insubstantial image
insufficiency of the valves
insufficient funds
insulating tape
insulation resistance
insulin reaction
insulin shock
insulin shock therapy
insurance adjuster
insurance agent
insurance auditor
insurance broker
insurance canvasser
insurance clerk
insurance collector
insurance company
insurance examiner
insurance man
insurance messenger
insurance patrol
insurance policy
insurance reserve
insurance salesman
insurance solicitor
insurance tester
insurance traveler
insurance underwriter
insuring clause
insusceptible of change
intaglio printing
intaglio rilevato
intaglio rilievo
intake manifold
intake valve
intangible assets
integer vitae
integrable group
integral calculus
integral cover
integral curvature
integral curve
integral cylinder head
integral domain
integral equation
integral function
integral humanism
integral photography
integral test
integral unit
integral whole
integrated bar
integrated circuit
integrated data processing
integrated personality
integrated system
integrating factor
integrating flowmeter
integrating ionization chamber
integration by parts
integration of personality
integrative power
intellectual acquirement
intellectual acquisition
intellectual attainment
intellectual childishness
intellectual climate
intellectual curiosity
intellectual elite
intellectual exercise
intellectual faculty
intellectual genius
intellectual gifts
intellectual grasp
intellectual immaturity
intellectual inertia
intellectual object
intellectual pleasure
intellectual power
intellectual prodigy
intellectual talents
intellectual weakness
intellectually childish
intellectually immature
intelligence agency
intelligence agent
intelligence bureau
intelligence department
intelligence office
intelligence officer
intelligence quotient
intelligence service
intelligence test
intelligence testing
intelligence work
intelligent being
intemperate person
intend to
intense cold
intense darkness
intense heat
intensity of illumination
intensity-modulated display
intensive care
intensive farming
intent on
intent upon
inter alia
inter alios
inter nos
inter se
inter vivos
inter-
inter-"varsity
inter-Allied
inter-American
inter-Andean
inter-European
inter-agent
inter-brain
inter-plane
inter-varsity
intercalary meristem
intercardinal point
interception radar
interchange of speech
interchange of views
interchangeable bond
intercommunication system
intercosmic space
interdict list
interdiction bombing
interdiction fire
interdisciplinary knowledge
interesse termini
interest group
interest in
interest inventory
interest lottery
interest payment
interest rate
interests of
interfacial tension
interfaith marriage
interfere with
intermediate pile
intermediate school
intermediate schooler
intermediate space
intermediate trainer
intermediate vessel
intermediate-frequency amplifier
intermediate-frequency pulse
intermediate-frequency signal
intermediate-frequency tube
intermediate-value theorem
intermedio-lateral
intermeshing rotors
intermeshing-rotor helicopter
intermetallic compound
intermittent claudication
intermittent current
intermittent duct engine
intermittent fever
intermittent movement
internal auditory meatus
internal conversion
internal ear
internal energy
internal evidence
internal friction
internal frustration
internal gear
internal hemorrhoid
internal iliac artery
internal jugular vein
internal medicine
internal reality
internal reconstruction
internal relation
internal respiration
internal revenue
internal revenue agent
internal revenue tax
internal rhyme
internal secretion
internal selector
internal stress
internal-combustion
internal-combustion engine
international Morse code
international agreement
international air mile
international alphabet flag
international angstrom
international bank
international banking
international candle
international carat
international date line
international fixed calendar
international law
international nautical mile
international numeral pennant
international organization
international pitch
international radio silence
international relations
international securities
international temperature scale
international unit
international-minded
internment camp
interno-
internuncial neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpretive semantics
interquartile range
interracial marriage
interrogation mark
interrogation point
interrogator-responsor
interrupted cadence
interrupted fern
interrupted screw
interrupted sequence
intersecting arcade
intersection locus
intersection of minds
interstate highway
interstellar distance
interstellar space
interstitial irradiation therapy
intertidal zone
interval of convergence
interval operation
interval training
intervening space
intervertebral disc
intervertebral disk
intervertebral substance
intestinal digestion
intestinal flora
intestinal fortitude
intestinal juice
intimate acquaintance
intimate borrowing
intimate friend
intimate friendship
intimate with
intimately related
into arrears
into commission
into high gear
into irons
into it
into question
into the background
into the bargain
into the dust
into the ground
into the past
into the shoes of
into the wind
into the wind's eye
into thin air
into with both feet
into your hands
intolerant person
intonation contour
intonation of voice
intonation pattern
intoxicating liquor
intra muros
intra vires
intra vitam
intra-
intra-abdominal
intra-abdominally
intra-acinous
intra-alveolar
intra-appendicular
intra-arachnoid
intra-arterial
intra-articular
intra-atomic
intra-atrial
intra-aural
intra-auricular
intra-arterial
intra-mercurial
intra-urban
intra-urethral
intra-uterine
intra-vitam
intracranial cast
intracutaneous test
intransitive relation
intransitive verb
intrauterine device
intravenous drip
intravenous therapy
intra-zonal soil
intrenching tool
intrinsic evidence
intrinsic factor
intrinsic semiconductor
intro-
introduce in
introduce new blood
introductory phrase
introductory study
intrusive rock
intuitional geometry
intuitive impression
intuitive knowledge
intuitive reason
invalid claim
invalid linking
invalid title
invalidity benefit
invariant subalgebra
inveigh against
inventory-clearance sale
inverse cosecant
inverse cosine
inverse cotangent
inverse feedback
inverse function
inverse geometry
inverse image
inverse peak voltage
inverse proportion
inverse ratio
inverse relationship
inverse secant
inverse sine
inverse square law
inverse tangent
inversion casting
inversion center
inversion point
inversion temperature
inversion transconductance
invert soap
invert sugar
inverted comma
inverted cross
inverted engine
inverted flight
inverted king post truss
inverted mordent
inverted normal loop
inverted pleat
inverted snob
inverted spin
inverted turn
invertible counterpoint
inverting telescope
invest in
invest with power
investigation into first causes
investigative agency
investigative bureau
investment bank
investment banker
investment banking
investment banking house
investment bill
investment broker
investment casting
investment company
investment credit
investment mold
investment reserve
investment securities
investment trust
investors on the sidelines
invisible balance
iron bacteria
iron blue
iron boot
iron brick
iron brown
iron buff
iron bullet
iron calker
iron carbide
iron carbonate
iron caster
iron cement
iron chloride
iron citrate
iron clay
iron coating
iron concrete
iron corer
iron crow
iron curtain
iron deficiency anemia
iron discharger
iron dog
iron family
iron filing
iron fitter
iron forger
iron founder
iron foundry
iron gang
iron glance
iron grass
iron gray
iron grey
iron grip
iron gum
iron hand
iron hat
iron heater
iron heel
iron horse
iron hydroxide
iron law of wages
iron liquor
iron loss
iron lung
iron maiden
iron maker
iron man
iron manufacturer
iron miner
iron mining
iron minium
iron mold
iron molder
iron nerves
iron oak
iron ore
iron out
iron oxide
iron perchloride
iron planer
iron plate
iron plater
iron prospector
iron protosulphate
iron puddler
iron putty
iron pyrites
iron ration
iron rations
iron red
iron roller
iron roofer
iron rust
iron sand
iron scale
iron scrap
iron shearer
iron sickness
iron sodium oxalate
iron spinel
iron sponge
iron stand
iron stretcher
iron sulfate
iron sulphate
iron sulphide
iron tree
iron trichloride
iron trimmer
iron vit
iron vitriol
iron will
iron yellow
iron-banded
iron-bark
iron-barred
iron-black
iron-blue dun
iron-blue spinner
iron-bound
iron-boweled
iron-braced
iron-branded
iron-burnt
iron-calked
iron-capped
iron-cased
iron-clenched
iron-coated
iron-colored
iron-core transformer
iron-cored
iron-curtain country
iron-enameled
iron-faced
iron-fastened
iron-forged
iron-founder
iron-free
iron-gloved
iron-grated
iron-gray
iron-grey
iron-guarded
iron-handed
iron-hard
iron-hearted
iron-heartedly
iron-heartedness
iron-heeled
iron-hooped
iron-jawed
iron-jointed
iron-knotted
iron-lined
iron-man
iron-marked
iron-mine
iron-mold
iron-mooded
iron-mould
iron-nailed
iron-nerved
iron-ore
iron-oxide red
iron-pated
iron-railed
iron-red
iron-ribbed
iron-riveted
iron-sand
iron-sceptered
iron-sheathed
iron-sick
iron-souled
iron-spotted
iron-stained
iron-strapped
iron-studded
iron-tipped
iron-tired
iron-toothed
iron-tree
iron-vane meter
iron-visaged
iron-willed
iron-winged
iron-witted
iron-worded
ironbark acacia
ironbark box
ironbound coast
ironbound security
ironclad agreement
ironclad oath
ironclad proof
ironclad ram
ironclad reasoning
ironer-up
ironic implication
ironic juxtaposition
ironic suggestion
ironing board
irons in the fire
ironstone china
irony-proof
irradiation therapy
irrational number
irreducible and stubborn facts
irreducible content
irrefutable logic
irregular motion
irregular warfare
irrepressible optimist
irresistible force
irresistible impulse
irresolute person
irrespective of
irrigating shovel
irrigation ditch
irrigation engineer
irrigation engineering
irritable bowel syndrome
irritable heart
irritable man
irritable temper
irritation fever
irritation-proof
is-
is-it
isamine blue
isat-
ischemic heart disease
ischio-
ising-star
island arc
island base
island chain
island continent
island group
island myrtle
island of Langerhans
island of Reil
island universe
island-belted
island-born
island-contained
island-dotted
island-dweller
island-hop
island-strewn
island-studded
islet of Langerhans
islet of langerhans
islets of Langerhans
iso-
iso-octane
iso-osmotic
iso-urea
iso-uretine
iso-uric
isoamyl acetate
isoamyl benzoate
isoamyl benzyl ether
isoamyl group
isoamyl nitrite
isoamyl radical
isoamyl salicylate
isobaric line
isobutyl propionate
isoclinal line
isoclinic line
isocyanic acid
isocyno group
isocyno radical
isoelectric point
isoganal line
isogonal line
isogonic line
isoionic point
isolate yourself
isolating language
isolation booth
isolation hospital
isolation ward
isomagnetic line
isometric drawing
isometric exercises
isometric line
isometric projection
isonicotinic acid hydrazide
isophthalic acid
isopiestic line
isoplastic graft
isoporic line
isopropyl alcohol
isopropyl ether
isopropyl group
isopropyl meprobamate
isopropyl radical
isosceles triangle
isothermal line
isothermal process
isothermal region
isothiocyanogen group
isothiocyanogen radical
isotope therapy
isotopic isobar
 isoxylic acid
issue a blank check
issue a caveat
issue a command
issue a manifesto
issue a position paper
issue a prohibitory injunction
issue a statement
issue a white paper
issue a writ
issue an injunction
issue an injunction against
issue an invitation
issue an ultimatum
issue forth
issue from
issue par
issue price
issue securities
issue stock
issued capital stock
issuing company
isthmus of the fauces
it beats me
it beats the Dutch
it being provided
it can be supposed
it cannot be helped
it does not matter
it does not signify
it follows that
it has me guessing
it is all the same
it is certain
it is fated
it is for a fact
it is necessary
it is of no consequence
it is of no importance
it is proven
it is said
it is that
it is written
it makes no difference
it matters not
it may be
it might be thought
it must be
it must follow
it must have its way
it must needs be
it needs must be
it stands to reason
it will all come out in the wash
it will be
it would appear
it's God's will
it's Greek to me
it's all one to me
it's all the same to me
it's beyond me
it's in the cards
it's no go
it's too deep for me
ita-palm
itaconic acid
italian sonnet
italo-
itch for
itch for knowledge
itch louse
itch mite
itch to
itch tree
itching for
itching palm
itching to
itchwood tree
item by item
item of evidence
item on the agenda
item veto
itemized bill
iterated integral
its last legs
its way
itsy-bitsy
itsy-wissy
itty-bitty
iu-
ivied halls
ivory black
ivory bleacher
ivory board
jack-in-office
jack-in-the-box
jack-in-the-boxes
jack-in-the-green
jack-in-the-pulpit
jack-in-the-pulpits
jack-knife
jack-line
jack-o'-lantern
jack-o-lantern
jack-of-all-trades
jack-plane
jack-pudding
jack-rabbit
jack-screw
jack-snipe
jack-spaniard
jack-staff
jack-stone
jack-straw
jack-tar
jack-yarder
jackal buzzard
jackass bark
jackass brig
jackass clover
jackass copal
jackass deer
jackass fish
jackass gunter
jackass hare
jackass kingfisher
jackass penguin
jackass rig
jackass-rigged
jackdaw in peacock's feathers
jacket crown
jackhead pit
jacking engine
jacking-up
jackknife clam
jackknife-fish
jackknife-fishes
jackleg lawyer
jackleg politician
jacko bush
jacks-of-all-trades
jackson day
jacky winter
jacob's ladder
jacob's membrane
jacob's staff
jacobean lily
jade green
jade plant
jade-green
jade-stone
jag bolt
jag spear
jag spike
jagged-toothed
jagger spring
jaggery palm
jagging iron
jaguar-man
jai alai
jail delivery
jail fever
jail-bird
jail-delivery
jail-fever
jake leg
jalee work
jam in
jam nut
jam riveter
jam session
jam through
jam up
jam weld
jam-full
jam-pack
jam-packed
jam-up
jamaica ginger
jamaica rum
jamais de la vie
jamb shaft
jambe de mouton
jamestown-weed
janca tree
jane doe
jane-of-apes
jangada fiber
jangada tree
jangle the nerves
jangled nerves
januis clausis
janus geminus
japan allspice
japan clover
japan drier
japan wax
japanese beetle
japanese iris
japanese millet
japanese mink
japanese persimmon
japanese plum
japanese quince
japanese spurge
japanic acid
jar on
jar upon the ear
jar with
jar-bird
jar-burial
jar-owl
jara-assu
jardin anglais
jardin chinois
jardin des plantes
jardins anglais
jardins chinois
jargon aphasia
jargon word
jarring of sounds
jasmine oil
jasmine tea
jasper gray
jasper green
jasper opal
jasper pink
jasper red
jasper ware
jato unit
jaundice berry
jaundice tree
jaundice-eyed
jaundiced eye
jaundiced yellow
jaunting car
jaunting-car
jaunty car
jerkin-head
jerking off
jerkinhead roof
jerkwater town
jerm-
jerry can
jerry hat
jerry shop
jerry-build
jerry-builder
jerry-building
jerry-built
jersey giant
jerusalem artichoke
jerusalem cherry
jerusalem cricket
jerusalem thorn
jest-book
jet airplane
jet black
jet blast
jet bomber
jet break
jet coal
jet condenser
jet d’eau
jet engine
jet engineer
jet engineering
jet exhaust
jet fighter
jet flight
jet fuel
jet injection
jet interrupter
jet jockey
jet lag
jet motor
jet pilot
jet pipe
jet plane
jet pod
jet power
jet propeller
jet propulsion
jet pump
jet rock
jet set
jet setter
jet stream
jet tanker
jet thrust
jet transport
jet wash
jet-assisted takeoff
jet-black
jet-enamelled ware
jet-pile
jet-propelled
jet-propulsion
jet-set
jet-setter
jeu d'esprit
jeu de mots
jeu de theatre
jeune fille
jeune premier
jeune premiere
jeunes filles
jeunes premiers
jeunesse dor
jeunesse doree
jeux d'esprit
jeux de mots
jew crow
jew down
jew nail
jew's harp
jew's-ear
jew's-harp
jew-fish
jewel block
jewel box
jewel case
jewel smuggling
jewel thief
jewel-block
jewel-bright
jewel-colored
jewel-enshrined
jewel-gleaming
jewel-headed
jewel-house
jewel-loving
jewel-proof
jewel-studded
jigger mast
jigger pump
jigger saw
jigger weed
jiggery-pokery
jigog ring
jigsaw puzzle
jill-flirt
jim crow
jim crowism
jim dash
jim-crow
jim-dandy
jim-dandy peach
jim-jam
jimson weed
jimson-weed
jin ricksha
jingle bell
jingle shell
jingle stick
jingle-jangle
jingling John
jingling Johnny
jinny road
jitney driver
jiu-jitsu
jive talk
jnana-marga
jo-darter
job action
job analysis
job card
job case
job classification
job costing
job description
job font
job lot
job of work
job order
job press
job printer
job printing
job ticket
job type
job watch
job work
job's comforter
job's tears
job-order costing
jobbing printer
jock strap
jockey backstay
jockey bar
jockey boot
jockey box
jockey cap
jockey club
jockey coat
jockey gear
jockey pulley
jockey saddle
jockey weight
jockey wheel
jodhpur boot
jodhpur boots
jodhpur shoe
joe rocker
joe-pye weed
joey glass
jog along
jog on
jog the memory
jog trot
jog-jog
jog-trot
joggle beam
joggle piece
joggle plating
joggle post
jogging plank
john barleycorn
john bull
john doe
john dory
john hancock
john henry
john-a-nokes
john-a-stiles
john-apple
johnny cake
johnny house
johnny reb
johnny-cake
johnny-jump-up
johnny-on-the-spot
johnson grass
joie de vivre
join Maths
join battle
join battle with
join forces
join fortunes with
join hands
join hands with
join in
join in a conversation
join in fellowship
join in holy wedlock
join in marriage
join in the chorus
join issue
join issue upon
join the angels
join the choir invisible
join the great majority
join the majority
join the opposition
join the parade
join together
join up
join up with
join with
join your ancestors
join your fortunes with
join yourself to
join yourself with
join-
joiner bulkhead
joiner door
joiner hardware
joiner work
joining of forces
joining-hand
joint account
joint and last survivor annuity
joint bar
joint bond
joint box
joint chair
joint chairmanship
joint clay
joint committee
joint control
joint density function
joint discussion
joint effort
joint filler
joint fir
joint gap
joint grass
joint heir
joint hinge
joint ill
joint life annuity
joint life insurance
joint making
joint operation
joint operations
joint ownership
joint pin
joint rate
joint resolution
joint return
joint runner
joint rust
joint sensation
joint sense
joint session
joint snake
joint stock
joint stool
joint tenancy
joint wire
joint-bedded
joint-ring
joint-stock association
joint-stock company
joint-stockism
joint-stool
joint-tenant
joint-worm
jointer plane
jointing plane
joke with whiskers
joke writer
joking-relative
jolly bean
jolly boat
jolly fellow
jolly jumper
jump all over
jump all over someone
jump area
jump at
jump at the bidding of
jump bail
jump ball
jump bid
jump dial
jump discontinuity
jump down your throat
jump frog
jump head
jump in
jump into
jump jet
jump joint
jump leads
jump line
jump off
jump on
jump on the bandwagon
jump out
jump out of your skin
jump over
jump pass
jump ring
jump rope
jump saw
jump scrape
jump seat
jump ship
jump shot
jump spark
jump stroke
jump suit
jump the gun
jump to a conclusion
jump to it
jump turn
jump up
jump weld
jump wire
jump-
jump-hop
jump-off
jump-shift
jump-spike coil
jump-start
jump-up
jumped-up
jumper cable
jumper lead
jumper sled
jumper stay
jumper wire
jumping bean
jumping disease
jumping jack
jumping mouse
jumping pain
jumping plant louse
jumping spider
jumping-off place
jumping-off-place
jumpy as a cat on a hot tin roof
junction box
junction transistor
juncture of events
june beetle
jungle ballot
jungle bear
jungle bendy
jungle bunny
jungle cat
jungle cock
jungle fever
jungle fowl
jungle geranium
jungle green
jungle gym
jungle hen
jungle juice
jungle ox
jungle rice
jungle rot
jungle sheep
jungle warfare
jungle-clad
jungle-covered
jungle-traveling
jungle-walking
jungle-worn
junior barister
junior chamber of commerce
junior college
junior common room
junior counsel
junior high
junior high school
junior leaguer
junior lightweight
junior middleweight
junior miss
junior officer
junior school
junior securities
junior varsity
junior welterweight
juniper bay
juniper berries
juniper berry
juniper cedar
juniper gum tree
juniper oil
juniper tree
juniper webworm
juniper-berry oil
juniper-tar oil
juniperic acid
junk bottle
junk collector
junk dealer
junk food
junk heap
junk jewelry
junk mail
junk peddler
junk ring
junk room
junk shop
junk yard
junk-bottle
jupiter's beard
jure divino
jure humano
juridical days
juristic act
juristic person
jury box
jury chancellor
jury fixing
jury list
jury mast
jury of inquest
jury of matrons
jury of the vicinage
jury of women
jury of your peers
jury panel
jury process
jury room
jury selection
jury skid
jury trial
jury wheel
jury-
jury-fixer
jury-mast
jury-packaging
jury-rig
jury-rigging
jury-rigged
jury-rigged expedient
jury-rigging
jury-sky
jury-squaring
jus canonicum
jus civile
jus commune
jus divinum
jus ecclesiasticum
jus gentium
jus inter gentes
jus naturae
jus naturale
jus postliminii
jus primae noctis
jus publicum
jus sanguinis
jus scriptum
jus soli
just a bit
just about
just across the street
just alike
just around the corner
just as predicted
just as you thought
just be
just being
just dandy
just deserts
just do
just enough
just expectation
just folks
just here
just imagine
just in case
just in time
just intonation
just know
just like one
just like that
just next door
just noticeable difference
just now
just once
just opposite
just out
just plain nuts
just right
just see
just so
just the opposite
just the other way
just the other way around
just the reverse
just the same
just then
just this once
just to be doing
just under the wire
just what the doctor ordered
juste-milieu
juste-milieux
justice box
justice court
justice in eyre
justice of assize
justice of the peace
justice seat
justice's warrant
justice-dealing
justice-loving
justice-proof
justice-slighting
justices in eyre
justifiable abortion
justifiable expectation
kachina doll
dad-
daffee klatsch
daffir beer
daffir corn
dafir corn
dai-kai
kailyard school
dainic acid
dariotic moment
dariotic time
daiser brown
daier roll
daju apple
dako-
dala azar
dala-azar
dalamiein work
daie brose
daie gully
daie runt
daie worm
daie-
daleyard school
damashimo zashi
dambing utan
damehameha day
damic body
damoot tree
dana-majiri
danal rays
dangaroo acacia
dangaroo apple
dangaroo bear
dangaroo beetle
dangaroo closure
dangaroo clature
dangaroo court
dangaroo feathers
dangaroo grass
dangaroo hare
dangaroo jerboa
dangaroo mouse
dangaroo paw
dangaroo rat
dangaroo thorn
dangaroo vine
dangaroo-rat
kans grass
kanya butter
kanya tree
kapok oil
kapok tree
kappa meson
karate expert
karma-marga
karri-tree
karroo bush
kary-
karyo-
kashgar tamarisk
kashmir goat
kat-
kata-
katabatic wind
katsura tree
kauri copal
kauri gum
kauri pine
kauri resin
kava gum
kaw-
kayo punch
keV
kedani fever
kedani mite
kedge anchor
kedge off
kedge-anchor
keekwilee-house
keel and keelson
keel arch
keel batten
keel line
keel over
keel petal
keel rail
keel rope
keel up
keel vessel
keel-boat
keel-bully
keeled snake
keelson rider
keen about
keen desire
keen eye
keen interest
keen on
keen pleasure
keen satisfaction
keen sight
keen-biting
keen-eared
keen-edged
keen-eyed
keen-nosed
keen-o
keen-o-peachy
keen-scented
keen-sighted
keen-witted
keen-wittedness
keena nuts
keep a check of
keep a check on
keep a civil tongue in your head
keep a course
keep a firm hand on
keep a firm hold upon
keep a good leeway
keep a good lookout
keep a good lookout for
keep a good margin
keep a good offing
keep a happy medium
keep a light in the window
keep a middle course
keep a nose to the wind
keep a sharp eye on
keep a sharp eye upon
keep a sharp lookout
keep a sharp lookout for
keep a stiff upper lip
keep a straight face
keep a tight hand on
keep a tight hand upon
keep a tight rein on
keep a watch
keep a weather eye open
keep abreast of the times
keep account of
keep accounts
keep afloat
keep alert
keep alive
keep alive in your thoughts
keep aloof
keep aloof from
keep an account with
keep an ace up your sleeve
keep an ear to the ground
keep an eye on
keep an eye out for
keep an eye upon
keep an idea
keep an open house
keep an open mind
keep apart
keep as a nest egg
keep aside
keep at
keep at a distance
keep at a respectful distance
keep at arm's length
keep at bay
keep at it
keep at your beck and call
keep awake
keep away
keep away from
keep bachelor quarters
keep back
keep banker's hours
keep between us
keep body and soul together
keep books
keep both feet on the ground
keep busy
keep buttoned up
keep by one
keep calm
keep clear of
keep close
keep close to
keep coming
keep company
keep company with
keep cool
keep count of
keep dark
keep doggedly at
keep in view
keep in with
keep informed
keep intact
keep inviolate
keep it a deep
keep it under your hat
keep kosher
keep late hours
keep moving
keep mum
keep off
keep off and on
keep on
keep on good terms
keep on hand
keep on the go
keep on the safe side
keep open house
keep out
keep out of harm's way
keep out of mischief
keep out of sight
keep out of the way
keep out of the way of
keep pace with
keep pointed
keep posted
keep quiet
keep remote from
keep safe
keep score
keep secret
keep shady
keep silence
keep silent
keep snug
keep something for a rainy day
keep station
keep step
keep step with
keep still
keep subject
keep tab
keep tab on
keep tabs
keep tabs on
keep tally
keep the ball rolling
keep the change
keep the course
keep the door open
keep the ears on the ground
keep the ears to the ground
keep the even tenor of your way
keep the eyes upon
keep the faith
keep the field
keep the golden mean
keep the heading
keep the lid on
keep the memory alive
keep the peace
keep the pot boiling
keep the wolf from the door
keep the wound open
keep time
keep to
keep to the middle
keep to the middle path
keep to the middle way
keep to yourself
keep together
keep track of
keep troth
keep trying
keep under
keep under control
keep under cover
keep under lock and key
keep under observation
keep under wraps
keep under your thumb
keep up
keep up a correspondence
keep up a fast pace
keep up a killing pace
keep up appearances
keep up on
keep up the good work
keep up the memory of
keep up to date
keep up to standard
keep up with
keep up with the Joneses
keep up your courage
keep uppermost in your thought
keep vigil
keep watch
keep watch and ward
keep watch over
keep within
keep within bounds
keep within compass
keep within limits
keep within these walls
keep within your budget
keep within your means
keep you guessing
keep you on edge
keep you on pins and needles
keep you on tenterhooks
keep you posted
keep your chin up
keep your cool
keep your course
keep your distance
keep your ear to the ground
keep your ears open
keep your esthetic distance
keep your eye on the ball
keep your eye peeled
keep your eyes on the stars
keep your eyes open
keep your eyes peeled
keep your eyes skinned
keep your fingers crossed
keep your footing
keep your freedom
keep your hand in
keep your head
keep your head above water
keep your mouth shut
keep your nose out of this
keep your nose to the grindstone
keep your own counsel
keep your pecker up
keep your place
keep your powder dry
keep your promise
keep your shirt on
keep your spirits up
keep your sword in its sheath
keep your temper
keep your trap shut
keep your weather eye open
keep your word
keep your yap shut
keep yourself to yourself
keep yourself under control
keeper hook
keeper ring
keeping apart
keeping flocks and herds
keeping in
keeping in mind
keeping room
keeping secret
keeping-room
keg fig
keg spring
kei-apple
kekuna oil
kelp ash
kelp crab
kelp goose
kelp greenling
kelp gull
kelp hen
kelp pigeon
kelp plover
kelp raft
kemiri nut
kemp-haired
kendal green
kennel club
kennelly-heaviside layer
kenny method
keno goose
kent cap
kente cloth
kentucky coffee tree
kephalo-
kept down
kept in
kept in remembrance
kept in reserve
kept mistress
kept under
kept woman
kera-
kerat kamel
key desk
key drift
key file
key filer
key frame
key fruit
key harp
key holder
key horizon
key industry
key line
key man
key money
key move
key of the Nile
key pad
key pattern
key pin
key pipe
key plate
key plug
key punch
key ring
key rocker
key scarf
key seat
key sentence
key signature
key size
key station
key stop
key to
key to the city
key tone
key trait
key trumpet
key up
key word
key-bugle
key-cold
key-drawing
key-note
key-seat rule
keyed up
keyed-up
keyhole limpet
keyhole saw
keyhole urchin
kick up a racket
kick up a row
kick up a shindy
kick up dust
kick up your heels
kick upstairs
kick wheel
kick you in the teeth
kick your habit
kick your heels
kick yourself
kick-about
kick-off
kick-sled
kick-start
kick-up
kickie-wickie
kicking coil
kicking downstairs
kicking out
kicking strap
kicking tackle
kicking upstairs
kicking-colt
kicking-horses
kicksey-winsey
kicksie-wicksie
kicksy-wicksy
kid along
kid around
kid brother
kid glove
kid gloves
kid out of
kid point
kid sister
kid stuff
kid yourself
kid-glove
kid-glove orange
kid-glove politics
kid-gloved
kid-skin
kiddie car
kidding around
kiddy car
kidney basin
kidney bean
kidney beans
kidney corpuscle
kidney cotton
kidney disease
kidney liverleaf
kidney machine
kidney oil
kidney ore
kidney pie
kidney stone
kidney transplant
kidney vetch
kidney worm
kidney-bean tree
kidney-leaved
kidney-shaped
kids' stuff
kikuyu grass
kill by inches
kill en masse
kill off
kill the fatted calf
kill the slain
kill time
kill two birds with one stone
kill with kindness
kill yourself
kill-
kill-courtesy
kill-cow
kill-crazy
kill-crazy animal
kill-devil
kill-joy
kill-kid
kill-time
kill-wart
killdeer plover
killed bowl
killed spirits
killed-virus vaccine
killer boat
killer whale
killer-diller
killing bottle
killing frost
killing ground
killing pace
killing site
killing time
killy hawk
kiln evaporator
kiln foreman
kiln run brick
kiln scum
kiln-burnt
kiln-dried
kiln-dry
kiln-drying
kilo-
kilo-oersted
kiloelectron volt
kilogram calorie
kilogram-calorie
kilogram-force
kilogram-meter
kilogramme-metre
kilovar-hour
kilovolt-ampere
kilovolt-ampere-hour
kilowatt-hour
kilt pleat
kim-kam
kimono sleeve
kind Nature's signal of retreat
kind deed
kind of
kind offices
kind regards
kind remembrances
kind words and comfortable
kind-hearted
kind-mannered
kindest regards
kindle down
kindling wood
kindly act
kindly disposition
kindly-disposed
kindred soul
kindred spirit
kinds of
kinematic pair
kinematic viscosity
kinesi-
kinesthetic memory
kinetic art
kinetic energy
kinetic potential
kinetic theory
kinetic theory of gases
kinetic theory of heat
kinetic theory of matter
kineto-
king at arms
king auk
king ball
king bee
king bridge
king card
king carp
king closer
king closure
king clover
king cobra
king conch
king crab
king crow
king devil
king eagle
king eider
king fern
king james version
king leg
king lory
king mackerel
king monkey
king mullet
king nut
king of arms
king of beasts
king of the castle
king of the forest
king of the herrings
king of the hill
king of the mountain
king ortolan
king parakeet
king penguin
king plank
king plant
king post
king prawn
king quail
king rail
king rod
king row
king salmon
king size
king snake
king sora
king spoke
king tody
king truss
king vulture
king's English
king's bench
king's birthday
king's blue
king's colour
king's colours
king's counsel
king's english
king's evidence
king's evil
king's highway
king's man
king's pattern
king's peace
king's purple
king's ransom
king's scout
king's shilling
king's weather
king's yellow
king's-pawn openings
king-bird
king-bolt
king-crab
king-craft
king-cup
king-emperor
king-fish
king-hit
king-killer
king-maker
king-of-arms
king-of-the-herrings
king-of-the-salmon
king-piece
king-pin
king-post
king-post truss
king-ridden
king-size
king-size bed
king-sized
king-whiting
king-whitings
kingdom come
kingdom of God
kingdom of ends
kingdom of glory
kingdom of heaven
kingfisher daisy
kings-of-arms
kink in one's horn
kino gum
kinship group
kip down
kip-ft
kipper-nut
kippered herring
kippered salmon
kirby hook
kirk master
kirk session
kirk skail
kirk-shot
kim baby
kim cut
kislar aga
kiss and make up
kiss cheeks
kiss curl
kiss good-bye
kiss hands
kiss of death
kiss of life
kiss of peace
kiss off
kiss one's feet
kiss the book
kiss the hem of your garment
kiss the rod
kiss your ass
kiss your feet
kiss-me
kiss-me-quick
kiss-off
kissing and making up
kissing bug
kissing cousin
kissing crust
kissing dance
kissing disease
kissing gate
kissing gourami
kissing kin
kissing strings
kit and boodle
kit and caboodle
kit bag
kit fiddle
kit fox
kit out
kit violin
kit-cat
kit-fox
kitchen bob
kitchen boiler
kitchen cabinet
kitchen fee
kitchen garden
kitchen gardener
kitchen ground
kitchen kaffir
kitchen match
kitchen midden
kitchen police
kitchen range
kitchen rose
kitchen saw
kitchen servant
kitchen sink
kitchen space
kitchen stuff
kitchen table
kitchen tea
kitchen work
kitchen-midden
kite balloon
kite bar
kite eagle
kite falcon
kite fighting
kite sausage
kite track
kite winder
kite-tailed
kite-wind
kited check
kith and kin
kitten moth
kitten-breeches
kittly-benders
kitty needy
kitty witch
kitty wren
kitty-cat
kitty-corner
kitty-cornered
kl-
kleig light
klept-
klieg eyes
klieg light
klook-klook
kn-
knap-bottle
knapsack sprayer
knave-child
kneaded butter
kneading-trough
knee action
knee bend
knee bone
knee brace
knee breeches
knee colter
knee cop
knee drill
knee drop
knee grass
knee guard
knee halter
knee holly
knee holm
knee jerk
knee joint
knee pants
knee pine
knee plate
knee puff
knee punch
knee rafter
knee roof
knee socks
knee strap
knee swell
knee timber
knee tool
knee viol
knee-bent
knee-bowed
knee-braced
knee-breeched
knee-cap
knee-crooking
knee-deep
knee-high
knee-high to a grasshopper
knee-hole
knee-joint
knee-jointed
knee-length
knee-pan
knee-shaking
knee-shaped
knee-sprung
knee-tied
knee-timber
knee-worn
kneed grass
kneel to
kneeling rafter
kneeling stool
knell-like
knick-knack
knife acacia
knife and fork
knife bar
knife bayonet
knife box
knife colter
knife edge
knife file
knife grass
knife grinder
knife key
knife lanyard
knife money
knife plait
knife plaiting
knife pleat
knife poised at your throat
knife rest
knife stone
knife switch
knife tool
knife-backed
knife-bladed
knife-board
knife-edge
knife-edged
knife-featured
knife-grinder
knife-handle
knife-jawed
knife-plaited
knife-point
knife-shaped
knife-striped
knifing tool
knight adventure
knight bachelor
knight bachelors
knight banneret
knight baronet
knight commander
knight cross
knight errant
knight errantry
knight grand commander
knight grand cross
knight marshal
knight of columbus
knight of the pen
knight of the plume
knight of the post
knight of the quill
knight of the road
knight service
knight templar
knight's fee
knight's-spur
knight-adventurer
knight-errant
knight-errantries
knight-errantry
knight-errantship
knight-head
knight-service
knighthood-errant
knightly skill
knights adventurers
knights bachelors
knights bannerets
knights baronets
knights commanders
knights grand commanders
knights grand cross
knights marshals
knights-errant
knit goods
knit the brow
knitting case
knitting machine
knitting needle
knitting pin
knitting sheath
knitting stick
knitting wire
knob celery
knob latch
knob lock
knob-billed
knob-nosed
knobbling fire
knobbling roll
knobcone pine
knock about
knock against
knock around
knock back
knock cold
knock dead
knock down
knock for a loop
knock galley-west
knock in
knock in the head
knock into a cocked hat
knock into your head
knock it off
knock off
knock on the head
knock on wood
knock out
knock out of the box
knock over
knock rummy
knock senseless
knock stiff
knock the bottom out of
knock the chip off your shoulder
knock the chocks
knock the chocks out from under
knock the props out from under
knock together
knock unconscious
knock under
knock up
knock you off your perch
knock your brains out
knock your eyes out
knock your head against
knock yourself out
knock-
knock-about
knock-down
knock-down-and-drag
knock-down-and-drag-out
knock-down-and-drag-out fight
knock-down-and-drag-out quarrel
knock-down-drag-out
knock-knee
knock-kneed
knock-knees
knock-me-down
knock-on
knock-out
knockdown argument
knocked flat
knocked out
knocked silly
knocked up
knocked-down
knocker-off
knocker-up
knocking-shop
knockout blow
knockout drop
knockout drops
knol-khol
knop yarn
knot bindweed
knot clipper
knot gall
knot garden
knot porter
knot stitch
knot tier
knot-grass
knot-jointed
knot-jointed rice grass
knot-portering
knotgrass spurge
knotroot grass
knotted score
knotter bill
knotter hook
knotting bill
knotty pine
knotty point
knotty question
knotty rhatany
knotty-leaved
knotty-pated
knotweed spurge
know a hawk from a handsaw
know a little
know a thing or two
know a trick worth two of that
know again
know all the answers
know all the ins and outs
know all the moves of the game
know all the tricks
know all the tricks of the trade
know backwards
know backwards and forwards
know beforehand
know by heart
know by rote
know by sight
know damn well
know darn well
know down to the ground
know for certain
know from A to Z
know from alpha to omega
know from nothing
know from the ground up
know full well
know inside out
know instinctively
know it all
know it-all
know like a book
know like the back of your hand
know no bounds
know no end
know no wrong
know not
know not what
know nothing
know nothing of
know the
know the ropes
know the score
know the ways of the world
know well
know what it's all about
know what's what
know when you have had enough
know which is which
know your ass from your elbow
know your onions
know your own mind
know your stuff
know your way about
know--all
know--how
know--it--all
know--little
know--nothing
know--nothingism
know--nothingness
knowledge of the world
knowledge without reason
knowledge without thought
knowledge-gap
known as
known by every schoolboy
known by measurement
known by the name of
known quantity
knuckle ball
knuckle bow
knuckle down
knuckle down to
knuckle gear
knuckle gearing
knuckle guard
knuckle joint
knuckle line
knuckle molding
knuckle pin
knuckle post
knuckle timber
knuckle tip
knuckle to
knuckle tooth
knuckle under
knuckle under to
knuckle-bone
knuckle-deep
knuckle-duster
knuckle-dusters
knuckle-joint
knuckle-joint press
knuckle-kneed
knurl toe
ko-katana
koa finch
koda millet
koh-i-noor
koi-kopal
kok-saghyz
kokra wood
kokum butter
kokum oil
kol nidre
kola nut
kola tree
koloa mapu
koloa moha
komma-ichi-da
kona cyclone
kona storm
konker tree
koppel flute
kosam seeds
kosher soap
kosher wine
kottabos kataktos
kousso flower
kow-tow
kraft paper
kraft process
kraut grass
krebs cycle
krems lead
krenging hook
kriss kringle
kriya-sakti
kriya-shakti
krym-saghyz
kryo-
ku klux klan
ku kluxer
ku-klux
kudzu vine
kugel granite
kujira shaku
kung chih
kung chin
kung ching
kung fen
kung fu
kung-fu
kungu cake
kuo-yu
kuping tael
kurchee bark
kuroshio extension
kuroshio system
kurrof's salt
kuteera gum
kutira gum
kwe-bird
kyano-
kyrie eleison
l'istesso tempo
l'union fait la force
l-
l-arterenol
l-glucose
l-noradrenaline
l-norepinephrine
la carte
la grippe
la guerre
la mode
la patrie
la recherche du temps perdu
la ronde
la tene
la-de-da
labor unionist
labor value theory
labor-saving
labor-saving device
laborare est orare
laboratory animal
laboratory apparatus
laboratory assistant
laboratory camera
laboratory chemist
laboratory course
laboratory diagnosis
laboratory equipment
laboratory experiment
laboratory method
laboratory microscope
laboratory school
laboratory table
laboratory technician
laboratory technique
laboratory test
laboratory work
laboratory worker
labored breathing
laboring man
laboring oar
labors of Hercules
labour camp
labour exchange
labour-saving
labrador retriever
labyrinth fish
labyrinth packing
lac dye
lac insect
lac lake
lac resin
lac resins
lac sulphuris
lac sumac
lac tree
lac virginis
lac wax
lace bug
lace coral
lace curtain
lace edging
lace fern
lace finisher
lace fly
lace glass
lace grass
lace into
lace lizard
lace maker
lace paper
lace piece
lace pigeon
lace pillow
lace plant
lace shoes
lace stitch
lace tree
lace trimming
lace up
lace vine
lace-bordered
lace-covered
lace-curtain
lace-curtained
lace-edged
lace-fern
lace-finishing
lace-fronted
lace-leaf
lace-leaves
lace-piece
lace-trimmed
lace-vine
lace-winged
lacerate the ear
lacerate the heart
lacertus fibrosus
lacewing fly
lachryma Christi
lachryma christi
lachrymal bone
lachrymatory gas
lacing course
lack force
lack in
lack of affect
lack of agreement
lack of appetite
lack of bite
lack of charisma
lack of charm
lack of claim
lack of color
lack of concord
lack of contact
lack of depth
lack of eagerness
lack of enthusiasm
lack of feeling
lack of feeling tone
lack of feelings
lack of finish
lack of food
lack of force
lack of foresight
lack of forethought
lack of hindrance
lack of incisiveness
lack of influence
lack of information
lack of integrity
lack of interest
lack of magnetism
lack of meaning
lack of message
lack of parallelism
lack of personality
lack of pleasure
lack of polish
lack of power
lack of preparation
lack of refinement
lack of respect
lack of self-confidence
lack of self-reliance
lack of sentimentality
lack of sheen
lack of sparkle
lack of title
lack of touch
lack of vision
lack of weight
lack of zeal
lack regularity
lack-all
lack-beard
lack-brain
lack-fettle
lack-latin
lack-learning
lack-linen
lack-love
lack-lustre
lack-pity
lacquer red
lacquer tree
lacquer ware
lacrim-
lacrimon bone
lacrimonial duct
lacrimonial gland
lacrimonial sac
lacrime stick
lact-
lactate dehydrogenase
lacteal gland
lactic acid
lacto-
lactogenic hormone
lactose intolerance
lacunar amnesia
lacustrine dweller
lacustrine dwelling
lacustrine inhabitant
lad's love
ladder back
ladder beetle
ladder braid
ladder chain
ladder company
ladder jack
ladder pipe
ladder road
ladder shell
ladder stitch
ladder tournament
ladder track
ladder truck
ladder-back
ladder-back chair
ladder-backed
laden with doom
laden with significance
laden with sorrow
ladies' fingers
ladies' gallery
ladies’ man
ladies’ room
ladies’ wear
ladies’-tobacco
ladies’-tobaccoes
ladies’-tobaccos
ladies’-wear shop
ladies-in-waiting
ladies-of-the-night
ladies-tresses
ladle board
ladle out
lady apple
lady beetle
lady bountiful
lady bracken
lady brake
lady chair
lady chapel
lady court
lady crab
lady cracker
lady day
lady fair
lady fern
lady friend
lady grass
lady hair grass
lady killer
lady love
lady mayoress
lady of pleasure
lady of the bedchamber
lady of the evening
lady of the house
lady pea
lady superior
lady whin
lady woman
lady wrack
lady's bedstraw
lady's cushion
lady's finger
lady's glove
lady's laces
lady's maid
lady's man
lady's mantle
lady's slipper
lady's thumb
lady's traces
lady's-eardrop
lady's-mantle
lady's-slipper
lady's-smock
lady's-thistle
lady's-thumb
lady's-tresses
lady-bird
lady-cow
lady-fish
lady-help
lady-in-waiting
lady-killer
lady-killing
lady-love
lady-of-the-night
lady-slipper
lady-smock
ladybird beetle
laetare sunday
laevo-
lag b'omer
lag behind
lag bolt
lag fault
lag line
lag screw
lag-bed tractor
lager beer
laggen-gird
lagging load
lah-di-dah
laid aside
laid bare
laid batonne
laid deck
laid embroidery
laid low
laid off
laid on the shelf
laid paper
laid up
laid wool
laisser aller
laisser faire
lamb down
lamb lily
lamb mint
lamb pie
lamb plant
lamb tail
lamb’s ears
lamb’s lettuce
lamb’s tails
lamb’s tongue
lamb’s wool
lamb’s-quarters
lamb’s-wool
lamb-like
lambda particle
lambdoidal suture
lambent flame
lame and impotent conclusion
lame brains
lame duck
lame excuse
lame verses
lame-born
lame-brain
lame-footed
lame-horsed
lame-legged
lamell-
lamella roof
lamellar vector
lamelli-
lament for
lamin-
laminar flow
laminar-flow system
laminar-flow-control plane
laminated glass
laminated safety glass
laminated wood
lamini-
lamp bearer
lamp cage
lamp chimney
lamp fitter
lamp holder
lamp house
lamp jack
lamp maker
lamp oil
lamp oiler
lamp shade
lamp shell
lamp socket
lamp standart
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
lamp-decked
lamp-foot
lamp-heated
lamp-hour
lamp-iron
lamp-lined
lamp-oil
lamp-post
lamp-warmed
lamper eel
lamper-eel
lamprey eel
lampro-
lana dye
lance bucket
lance corporal
lance head
lance of courtesy
lance rest
lance sergeant
lance snake
lance tooth
lance-acuminated
lance-breaking
lance-fashion
lance-headed snake
lance-jack
lance-knight
lance-leaved
lance-linear
lance-oblong
lance-oval
lance-ovate
lance-pierced
lance-shaped
lance-worn
lancet arch
lancet architecture
lancet clock
lancet fish
lancet window
lancinating pain
land agency
land agent
land bank
land battleship
land board
land breeze
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crake
land cress
land crocodile
land drake
land dreadnought
land dredge
land end
land fast
land flowing with milk and honey
land force
land forces
land girl
land grant
land hunger
land lane
land law
land lead
land league
land leech
land line
land mail
land measure
land mile
land mine
land of Nod
land of Prester John
land of dreams
land of enchantment
land of faerie
land of heart's desire
land of milk and honey
land of plenty
land of promise
land of the gods
land office
land on
land on like a ton of bricks
land on your feet
land otter
land patent
land pike
land pirate
land pitch
land plaster
land power
land rail
land rat
land reform
land rock
land scale
land scrip
land scurvy
land seal
land service
land settlement
land shark
land side
land snail
land sole
land spring
land station
land steward
land surveyor
land tax
land tenure
land tie
land tortoise
land trash
land trust
land up
land urchin
land warfare
land warrant
land wheel
land wind
land with
land yard
land-bank
landscape architect
landscape architecture
landscape gardener
landscape gardening
landscape marble
landscape mirror
landscape painting
landslide victory
lane route
lane snapper
lang lay
lang syne
lang-kail
langrage shot
langrel shot
language arts
language laboratory
language study
language style
langue d'o
langue d'oc
langue d'oil
langue de boeuf
langue de chat
langues de boeuf
languish for
lank-bellied
lank-blown
lank-cheeked
lank-eared
lank-haired
lank-jawed
lank-lean
lank-sided
lank-winged
lantern bellows
lantern carrier
lantern clock
lantern fish
lantern flounder
lantern fly
lantern gear
lantern gurnard
lantern jack
lantern jaw
lantern jaws
lantern keg
lantern light
lapel mike
lapel pin
lapidary bee
lapidary mill
lapis lazuli
lapis lazuli blue
lapis lazuli ware
lapp owl
lapped joint
lapped-butt joint
lappet caterpillar
lappet loom
lappet moth
lappet weaving
lappet wheel
lapse back
lapse from grace
lapse into
lapse into disorder
lapse of memory
lapse of time
lapse rate
lapsed from grace
lapsed nature
lapsed state
lapsus calami
lapsus linguae
lapsus memoriae
lapwing gull
larboard watch
larch agaric
larch canker
larch pine
larch sawfly
larch turpentine
lard compound
lard insect
lard oil
lard pig
lard refiner
lard stearin
lard stone
lard type
lard-assed
lardaceous degeneration
larder beetle
lardy cake
lardy-dardy
lares and penates
lares compitales
lares familiaris
lares permarini
lares praestites
lares viales
large amount
large animal
large as life
large black
large calorie
large cane
large cranberry
large heart
large intestine
large meal
large number
large order
large periwinkle
large person
large size
large sum
large thing
large white
large-aced
large-ankled
large-bayed
large-billed
large-bodied
large-boned
large-bore
large-bracted
large-browed
large-built
large-caliber
large-celled
large-crowned
large-diameter
large-drawn
large-eared
large-eyed
large-flinned
large-flowered
large-footed
large-framed
large-fronded
large-fruited
large-grained
large-grown
large-handed
large-handedness
large-headed
large-hearted
large-heartedness
large-humped
large-horned
large-leaved
large-leaved cucumber tree
large-lettered
large-limbed
large-looking
large-lunged
large-minded
large-mindedly
large-mindedness
large-molded
large-natured
large-necked
large-nostrilled
large-petaled
large-rayed
large-scale
large-scaled
large-size
large-sized
large-souled
large-spaced
large-stomached
large-tailed
large-thoughted
large-throated
large-toothed
large-trunked
large-type
large-utteranced
large-viewed
large-wheeled
large-wristed
largemouth bass
larger than life
lariat loop
larixinic acid
lark bunting
lark finch
lark plover
lark sparrow
lark-colored
lark-heel
lark-heeled
larspur violet
larum-bell
larval epilepsy
larval plague
larvi-
laryng-
laryngeal epilepsy
laryngis stridulus
laryngo-
laser photography
laser surgery
lash and carry
lash and tie
lash back
lash comb
lash into
lash into a frenzy
lash into a fury
lash into fury
lash line
lash out
lash out at
lash rail
lash the waves
lash up
lash-up
lasso cell
lasso harness
last act
last agony
last breath
last dab
last days
last debt
last ditch
last duty
last expedient
last extremity
last forever
last gasp
last home
last honors
last inning
last lap
last lick
last long
last maker
last making
last marin
last mile
last minute
last muster
last name
last off the mark
last offices
last out
last post
last quarter
last resort
last resource
last rest
last rites
last round
last roundup
last service
last shift
last sleep
last stage
last stop
last straw
last stroke
last supper
last survivor annuity
last thing
last things
last touch
last trumpet
last will and testament
last word
last word, the
last words
last-born
last-cited
last-cyclic
last-ditch
last-ditch fight
last-ditcher
last-erected
last-in
last-in first-out
last-made
last-mentioned
last-minute
last-minute lie
last-named
lastage-free
lasting fame
lasting friendship
latch bolt
latch circuit
latch locking
latch needle
latch on
latch onto
latch-key
latch-string
latchkey child
late arrival
late blight
late bloomer
late developer
late greek
late hour
late in the day
late lamented
late latin
late off the mark
late riser
late wood
late-begun
late-betrayed
late-blooming
late-born
late-built
late-coined
late-come
late-comer
late-cruising
late-disturbed
late-embarked
late-filled
late-flowering
late-found
late-imprisoned
late-kissed
late-lamented
late-lingering
late-lost
late-met
late-model
late-protracted
late-ripening
late-sacked
late-taken
late-transformed
late-type star
late-wake
late-won
lateen sail
lateen-rigged
latency period
latent content
latent epilepsy
latent heat
latent image
latent learning
latent meaning
latent meaningfulness
latent period
latent strabismus
latent syphilis
latent violence
later than
later time
latera recta
lateral axis
lateral canal
lateral chain
lateral circuit
lateral drift
lateral fissure
lateral line
lateral line system
lateral lisp
lateral magnification
lateral meristem
lateral moraine
lateral pass
lateral plane
lateral resistance
lateral stability
lateral system
lateral tangent arc
lateral thinking
lateri-
latero-
latest fad
latest fashion
latest thing
latest thing, the
latest wrinkle
latest-born
latex paint
latex paper
lath and plaster
lath brick
lath cutter
lath maker
lath making
lath nail
lath nailer
lath puncher
lath splitter
lath tier
lath trimmer
lath-backed
lath-legged
lathe chuck
lathe-bore
lather up
lathered up
lathering up
lathing hammer
lathing hatchet
lati-
latin cross
latin quarter
latin square
latissimi dorsi
latissimus dorsi
latitude and longitude
latitude sailing
latrine lawyer
latrine rumor
latter end
latter-day
latter-day saint
lattice bar
lattice beam
lattice bridge
lattice girder
lattice moss
lattice plant
lattice stitch
lattice strut
lattice truss
lattice-leaf
lattice-leaves
lattice-plant family
lattice-window
lattice-work
latus rectum
lau lau
laudator temporis acti
laugh at
laugh away
laugh down
laugh fit to burst
laugh fit to bust
laugh in
laugh in your beard
laugh in your face
laugh in your sleeve
laugh it up
laugh off
laugh on the other
laugh out of court
laugh outright
laugh to scorn
laugh up
laugh up your sleeve
laugh yourself limp
laugh yourself sick
laugh yourself silly
laughing academy
laughing gas
laughing gull
laughing hyena
laughing jackass
laughing muscle
laughing stock
laughing-stock
laughter holding both his sides
laughter-dimpled
laughter-lighted
laughter-lit
laughter-loving
laughter-provoking
laughter-stirring
launch a holy war on
launch a vendetta
launch an attack
launch forth
launch into
launch into eternity
launch out against
launch pad
launch upon
launch vehicle
launch window
launch-ways
launched into eternity
launching base
launching gear
launching mortar
launching pad
launching platform
launching rack
launching ramp
launching shoe
launching tower
launching tube
launching vehicle
launching way
launching ways
laundry cart
laundry room
laundry soap
laurel bay
laurel butter
laurel camphor
laurel cherry
laurel family
laurel green
laurel hawthorn
laurel oak
laurel oil
laurel pink
laurel sumac
laurel thyme
laurel-bearing
laurel-browed
laurel-crowned
laurel-decked
laurel-leaf
laurel-leaf oil
laurel-leaved
laurel-locked
laurel-worthy
laurel-wreathed
lauric acid
lauric aldehyde
lauroyl group
lauroyl radical
lauryl alcohol
lauryl aldehyde
laus Deo
lauter tub
lava cone
lava-capped
lava-lava
lava-lit
lava-paved
lavaliere microphone
lavatory pan
lavatory paper
lave net
lavender blue
lavender cotton
lavender grass
lavender oil
lavender water
lavender-blue
lavender-flowered
lavender-scented
lavender-tinted
lavender-water
laver bread
lavish care on
lavish feast
lavish upon
lavish with
lavish yourself on
law French
law agent
law and order
law binding
law buckram
law centre
law code
law court
law enforcement agency
law enforcement agent
law hand
law member
law member of a court-martial
law merchant
law of Dulong and Petit
law of Malus
law of action and reaction
law of additiv
law of additive pressures
law of averages
law of conservation of charge
law of conservation of energy
law of conservation of mass
law of contradiction
law of cosines
law of definite composition
law of definite proportions
law of equivalent retaliation
law of excluded middle
law of exponents
law of general application
law of gravitation
law of identity
law of large numbers
law of mass action
law of moses
law of motion
law of multiple proportion
law of multiple proportions
law of nations
law of nature
law of parity
law of parsimony
law of partial pressures
law of reflection
law of refraction
law of retaliation
law of sines
law of succession
law of the domicile
law of the forum
law of the jungle
law of the land
law of the mean
law of the place
law of thermodynamics
law of thought
law of trichotomy
law of universal gravitation
law office
law officer
law sakes
law school
law stationer
law term
law, the
law-abiding
law-abidingness
law-beaten
law-book
law-borrow
law-breaker
law-bred
law-condemned
law-day
law-fettered
law-hand
law-honest
law-learned
law-learnedness
law-loving
law-magnifying
law-maker
law-merchant
law-reckoning
law-revering
law-ridden
law-stationer
law-worthy
lawful authority
lawful possession
lawless person
lawn billiards
lawn bowling
lawn cart
lawn chair
lawn grass
lawn green
lawn meet
lawn mower
lawn party
lawn pennywort
lawn sleeves
lawn tennis
lawn-roller
lawn-sleeved
lawn-tennis
lawn-tractor
lawyer bush
lawyer cane
lawyer palm
lawyer reference
lawyer vine
lax stewardship
lax-flowered
lay a course
lay a course for
lay a duty on
lay a false scent
lay a fart
lay a hand on
lay a heavy hand on
lay a plot
lay a trap for
lay a wager
lay a wet blanket on
lay abbot
lay aboard
lay about
lay about one
lay aloft
lay an egg
lay an embargo on
lay analyst
lay anchor
lay aside
lay at
lay at the door of
lay at your door
lay at your feet
lay away
lay away from
lay baptism
lay bare
lay before
lay before the public
lay blame upon
lay board
lay boat
lay brother
lay by
lay by the heels
lay chalice
lay charges
lay claim to
lay clerk
lay close
lay day
lay days
lay down
lay down a plan
lay down the law
lay down your arms
lay down your tools
lay eggs
lay elder
lay emphasis upon
lay eyes on
lay fee
lay figure
lay flat
lay for
lay forward etc
lay ghosts
lay hands on
lay heads together
lay hold of
lay in
lay in a stock
lay in a store
lay in a supply
lay in provisions
lay in ruins
lay in store
lay in the earth
lay in the grave
lay in the lap of the gods
lay in the scales
lay intermediary
lay into
lay it on
lay it on the line
lay it on thick
lay it on with a trowel
lay judge
lay level
lay level with the ground
lay lord
lay low
lay me down to sleep
lay money on
lay of the land
lay of the land, the
lay off
lay off from
lay on
lay on a color
lay on color
lay on one
lay on the line
lay on the rack
lay on the table
lay one's hand on
lay open
lay out
lay out a course
lay out money
lay out on
lay over
lay plans
lay reader
lay shaft
lay siege to
lay sister
lay stress upon
lay the ax to the root of
lay the blame on
lay the dust
lay the first stone
lay the foundation
lay the groundwork
lay the land
lay to
lay to heart
lay to rest
lay to the oars
lay to your charge
lay to your door
lay together
lay under an interdict
lay under an interdiction
lay under restraint
lay under the sod
lay up
lay up a store
lay up for
lay upon
lay vicar
lay violent hands on
lay wait
lay wait for
lay waste
lay your cards on the table
lay your course for
lay your finger on
lay your fingers on
lay your hands on
lay your money down
lay your shoulder to the wheel
lay yourself open
lay yourself open to
lay yourself out
lay-by
lay-day
lay-down
lay-fee
lay-land
lay-man
lay-minded
lay-off
lay-on
lay-out
lay-over
lay-shaft
lay-up
layaway plan
layer board
layer cake
layer tint
layer-on
layer-out
layer-over
layer-up
layers-out
laying bare
laying duck
laying of charges
laying on
laying on of hands
laying open
laying over
laying press
laying top
laying waste
layout chart
lazar house
lazar-house
lazuli bunting
lazy Susan
lazy bar
lazy crab
lazy daisy stitch
lazy eight
lazy eye
lazy guy
lazy halyard
lazy jack
lazy painter
lazy person
lazy stream
lazy susan
lazy tack
lazy tongs
lb ap
lb av
lb t
le dernier cri
le drapeau tricolore
le genre humain
le pas
le premier pas
le roi est mort vive le roi
le roi le veut
le sport
le style c'est l'homme
le tout ensemble
lea oak
lea rig
lea-land
lea-rig
lead a charmed life
lead a cloistered life
lead a dog's life
lead a retired life
lead acetate
lead acid cell
lead an easy life
lead arming
lead arsenate
lead ash
lead astray
lead azide
lead back
lead block
lead bullion
lead by the nose
lead captive
lead carbonate
lead chloride
lead chromate
lead colic
lead color
lead curve
lead dioxide
lead foil
lead glass
lead glaze
lead gray
lead into captivity
lead item
lead line
lead mill
lead mining
lead monoxide
lead nitrate
lead ocher
lead off
lead on
lead one a dance
lead one a merry chase
lead out
lead oxide
lead oxychloride
lead palsy
lead pencil
lead peroxide
lead pilot
lead pipe cinch
lead poisoning
lead rammer
lead role
lead runner
lead screw
lead sheet
lead singer
lead soap
lead someone a chase
lead spar
lead sulphate
lead sulphide
lead tetraethyl
lead the dance
lead the mind astray
lead the way
lead time
lead to
lead to believe
lead to the altar
lead tolerance
lead track
lead tree
lead up
leaden-eyed
leaden-footed
leaden-headed
leaden-heeled
leaden-hued
leaden-natured
leaden-paced
leaden-skulled
leaden-soled
leaden-souled
leaden-spirited
leaden-thoughted
leaden-weighted
leaden-willed
leaden-winged
leaden-witted
leader block
leader cable
leader head
leader of fashion
leader of men
leader of the opposition
leader pipe
leader writer
leading aircraftman
leading article
leading bar
leading block
leading card
leading coefficient
leading edge
leading her mother
leading idea
leading lady
leading light
leading man
leading mark
leading note
leading question
leading reins
leading strings
leading to
leading tone
leading wheel
leading wind
leading wire
leading woman
leadpipe cinch
leaf beet
leaf beetle
leaf bite
leaf blade
leaf blender
leaf blight
leaf blotch
leaf bud
leaf bug
leaf coral
leaf curl
leaf cutting
leaf fall
leaf fat
leaf gold
leaf green
leaf insect
leaf lard
leaf lettuce
leaf metal
leaf metals
leaf miner
leaf mold
leaf monkey
leaf mould
leaf mustard
leaf out
leaf picker
leaf roll
leaf roller
leaf rust
leaf scald
leaf sight
leaf sorter
leaf spot
leaf spring
leaf stripper
leaf through
leaf warbler
leaf-bearing
leaf-clad
leaf-climber
leaf-climbing
leaf-curl fungus
leaf-cutter
leaf-cutting ant
leaf-cutting bee
leaf-eared
leaf-eating
leaf-footed
leaf-forming
leaf-fringed
leaf-gold
leaf-hopper
leaf-laden
leaf-lard
leaf-nose
leaf-nosed
leaf-nosed bat
leaf-shaded
leaf-shaped
leaf-sheltered
leaf-strewn
leafcutter ant
leafcutter bee
leafy-stemmed
league together
league with
leaguer lass
leak away
leak in
leak out
leakage coefficient
leakage conductance
leakage conductor
leakage flux
leaking purse
leaky wave-guide antenna
lean and hungry look
lean as a rake
lean limbed
lean on
lean on a broken reed
lean on it
lean over
lean over backward
lean over backwards
lean toward
lean towards
lean upon
lean-cheeked
lean-eared
lean-face
lean-faced
lean-fleshed
lean-headed
lean-horned
lean-jawed
lean-limbed
lean-looking
lean-minded
lean-necked
lean-ribbed
lean-souled
lean-to
lean-to roof
lean-to tent
lean-tos
lean-witted
leaning thread
leaning toward
leaning tower
leap before you look
leap day
leap in the dark
leap into the breach
leap like a startled gazelle
leap over
leap over the wall
leap to the eye
leap up
leap year
leap-frog
leaping head
leaping spider
leaping weir
lear board
learn a lesson
learn about
learn all about
learn by doing
learn by experience
learn by heart
learn by rote
learn from
learn the ins and outs
learn the ropes
learn to live in your own skin
learn verbatim
learn word for word
learned clerk
learned man
learned profession
learner's permit
learning by heart
lease and release
lease out
lease rod
lease system
lease-back
lease-lend
lease-pardle
lease-purchase
leasehold insurance
leasehold mortgage
least bittern
least common denominator
least common multiple
least flycatcher
least killifish
least of all
least sandpiper
least shrew
least significant digit
least squares
least upper bound
least weasel
leather beetle
leather brown
leather carp
leather cloth
leather dresser
leather enameler
leather fern
leather goods
leather goods store
leather jack
leather maker
leather paper
leather star
leather-backed
leather-bound
leather-colored
leather-covered
leather-cushioned
leather-cutting
leather-faced
leather-hard
leather-headed
leather-jacket
leather-lined
leather-lunged
leather-necked
leather-winged
leatherback turtle
leathery turtle
leave a loose thread
leave alone
leave an aching void
leave be
leave behind
leave flat
leave flatfooted
leave go
leave half-done
leave holding the bag
leave home
leave in
leave in the dark
leave in the lurch
leave it to one
leave it to you
leave looking
leave loose ends
leave no avenue unexplored
leave no chance
leave no escape
leave no loose ends
leave no option
leave no room for error
leave no stone unturned
leave no trace
leave no void
leave not a rack behind
leave nothing hanging
leave nothing to chance
leave nothing to say
leave nothing undone
leave of absence
leave off
leave out
leave out in the cold
leave out nothing
leave out of account
leave out of your calculation
leave over
leave remaining
leave standing
leave taking
leave the atmosphere
leave the beaten path
leave the country
leave the door open
leave the earth behind
leave the ground
leave the nest
leave the scene
leave the stage
leave the straight and narrow
leave the way open
leave things as they are
leave to chance
leave to luck
leave to your own devices
leave to yourself
leave unavenged
leave undone
leave unsatisfied
leave well enough alone
leave word
leave you cold
leave you to gather
leave your card
leave your mark
leave yourself wide open
leave-taking
leaving aside
leaving life
leaving much to chance
leaving no room for error
leaving no stone unturned
leaving out
leaving out nothing
leaving the earth behind
leaving the ground
lebbek tree
lechosos opal
lecture hall
lecture room
lecture-demonstration
led astray
led by the nose
led captain
led farm
ledge stone
ledged door
ledgement table
ledger bait
ledger bark
ledger beam
ledger blade
ledger board
ledger line
ledger paper
ledger plate
ledger strip
ledger tackle
ledger-book
ledum camphor
lee anchor
lee gauge
lee helm
lee sheet
lee shore
lee side
lee tack
lee tide
lee wave
lee wheel
lee wheelsman
lee's birthday
lee-board
lee-bow
lee-way
leech line
leech rope
leech worm
leech-book
leek green
leek-green
leer at
leering look
leeward tide
left a mile behind
left bank
left bower
left field
left fielder
left five degrees rudder
left full rudder
left half rudder
left hand
left handsomely
left heart
left of center
left out
left out in the cold
left pedro
left rudder
left side
left stage
left standard rudder
left ten degrees rudder
left undone
left wing
left winger
left-bank
left-brained
left-eyed
left-eyed flounder
left-eyedness
left-foot
left-footed
left-footedness
left-footer
left-hand
left-hand buoy
left-hand dagger
left-hand engine
left-hand side
left-handed
left-handed compliment
left-handed marriage
left-handedly
left-handedness
left-hander
left-handiness
left-laid
left-lay
left-legged
left-leggedness
left-luggage office
left-off
left-over
left-sided
left-wing
left-wing extremism
left-wing extremist
left-winger
left-wingish
left-wingism
left-eye flounder
leg armor
leg art
legal contract
legal counsellor
legal counselor
legal decision
legal document
legal estate
legal ethics
legal evidence
legal expert
legal fiction
legal flaw
legal form
legal geology
legal heir
legal holiday
legal inability
legal incapacity
legal instrument
legal irregularity
legal jointure
legal medicine
legal murder
legal order
legal paper
legal plea
legal possession
legal power
legal practitioner
legal proceedings
legal process
legal profession
legal remedy
legal reserve
legal restraint
legal right
legal right of use
legal rights
legal science
legal securities
legal separation
legal statement
legal summons
legal system
legal tender
legal tribunal
legal weight
legal-size paper
legal-tender note
lemon sole
lemon squash
lemon squeezer
lemon verbena
lemon vine
lemon yellow
lemon-color
lemon-colored
lemon-faced
lemon-flavored
lemon-grass oil
lemon-green
lemon-scented
lemon-scented gum
lemon-tinted
lemon-yellow
lemonade sumac
lend a color to
lend a hand
lend a helping hand
lend a willing ear
lend an ear
lend an ear to
lend one aid
lend substance to
lend support
lend wings to
lend your backing to
lend your countenance to
lend your favor to
lend your name to
lend your offices
lend your support to
lend yourself to
lend-lease
lend-leased
lend-leasing
lending at interest
lending institution
lending library
length and breadth
length between perpendiculare
length of time
length over all
lengthen out
leni-lenape
leno brocade
leno weave
lens cell
lens cover
lens hood
lens maker
lens making
lens opening
lens screen
lens turret
lens-mount
lens-shaped
lent lily
lenticular cloud
lenticular nucleus
lenticular process
lenticular truss
lenticulo-optic
lentil cut
lentil tare
lentil weevil
leonine partnership
leonine rhyme
leontiasis ossea
leopard cat
leopard flower
leopard frog
leopard lily
leopard lionne
leopard lizard
leopard moth
leopard seal
leopard's bane
leopard's spots
leopard's-bane
leopard-man
leper house
lepid-
lepido-
lepra arabum
lepto-
lepto-form
lepto-type
lepton number
lerp insects
lese majesty
lese-majesty
less advanced
less and less
less semitone
less than
less than no time
lesser Bairam
lesser Ionic
lesser anteater
lesser bear
lesser celandine
lesser dog
lesser doxology
lesser litany
lesser multangular bone
lesser nobility
lesser omentum
lesser panda
lesser star grass
lesser weever
lesser wintergreen
lesser yellowlegs
let 'em have it
let a fart
let alone
let be
let blood
let bygones be bygones
let dangle
let daylight in
let down
let down easy
let down your defenses
let down your guard
let down your side
let drive
let drive at
let drop
let fall
let fall into desuetude
let fall into disuse
let fall the shadow of mine eyes
let flow through your fingers
let fly
let fly at
let get around
let get by
let get past
let go
let go by
let go by default
let go free
let go the anchor
let go with
let go your own way
let have
let have it
let her out
let in
let in on
let in on the know
let in to
let into
let into the secret
let it all hang out
let it be understood
let it go
let it have its way
let it pass
let it stand
let it take its course
let know
let loose
let loose of
let money be no object
let next to
let off
let off a shot at
let off steam
let on
let on like
let or hindrance
let out
let out on bail
let pass
let ride
let rip
let sleeping dogs lie
let slide
let slip
let slip the dogs of war
let slip through your fingers
let someone have it
let take its course
let the air out of
let the cat out of the bag
let the devil take the hindmost
let the matter stand
let the mind lie fallow
let the portcullis down
let the wound heal
let things take their course
let tomorrow take care of itself
let up
let up on
let well enough alone
let wind
let you go at will
let you have his head
let you have your own way
let you off easy
let you off this time
let your angry passions rise
let your attention wander
let your breath out
let your hair down
let your imagination riot
let your imagination run riot
let your imagination run wild
let your light shine
let your mind wander
let your thoughts wander
let your voice be heard
let your wits go bird's nesting
let yourself go
let yourself in for
let-alone
let-alone doctrine
let-alone policy
let-alone principle
let-off
let-out
let-pass
let-up
lethal blow
lethal chamber
lethal dose
lethal factor
lethal gene
lethargic encephalitis
lethargic hypnosis
letter avocatory
letter bag
letter board
letter bomb
letter book
letter box
letter card
letter-press
letter-winged
lettering pen
letterpress photoengraving
letters credential
letters dimissory
letters missive
letters of administration
letters of credence
letters of marque
letters of marque and reprisal
letters of request
letters of the alphabet
letters overt
letters pacifical
letters patent
letters rogatory
letters testamentary
letterwinged kite
letting down
letting go
letting out
lettre de cachet
lettre de change
lettre de creance
lettres de cachet
lettres de change
lettuce bird
lettuce green
lettuce mildew
lettuce opium
lettuce saxifrage
leuc-
leucite basalt
leucite-basanite
leucite-tephrite
leuco base
leuco-
leucoturic acid
leukemic reticuloendotheliosis
leuko-
leukocyt-
leuna saltpeter
lev-
levari facias
levee en masse
level as a plain
level at
level crossing
level curve
level curves
level head
level instrument
level land
level landing
level line
level of stress
level off
level pegging
level plane
level premium
level staff
level surfaces
level with
level-coil
level-headed
level-headedness
level-jawed
level-off
level-wind
leveling head
leveling instrument
leveling rod
leveling screw
leveling stand
leveling support
levelling screw
levels of meaning
lever action
lever engine
lever escapement
lever pilot
lever safety valve
lever scales
lever shears
lever tumbler
lever watch
lever-action
lever-action rifle
levin bolt
levin brand
levo camphor
levo-
levo-pinene
levulinic acid
levy a distress
liberty cap
liberty green
liberty hall
liberty horse
liberty in tranquillity
liberty of speech
liberty of the press
liberty pole
liberty ship
liberty tea
liberty tree
libidinal energy
libido arrest
libido fixation
libra mayor
library binding
library card
library case
library catalog
library director
library edition
library paste
library school
library science
library steps
library table
libration in latitude
libration in longitude
libration of the moon
libretto-writing
license bond
license fee
license plate
license tax
licensed pilot
licensed practical nurse
licensed victualer
lich bird
lich fowl
lich gate
lich owl
lich path
lich stone
lich-gate
lich-house
lich-owl
lichen fungus
lichen green
lichen islandicus
lichen primus
lichen tropicus
lichen-clad
lichen-crusted
lichen-grown
lichen-laden
lichenic acid
lick into shape
lick of work
lick one's shoes
lick the dust
lick the feet of
lick the plate
lick the platter
lick to a frazzle
lick your ass
lick your boots
lick your chops
lick your shoes
lick your wounds
lick-dish
lick-finger
lick-foot
lick-ladle
lick-platter
lick-spigot
lick-spittle
licker-in
lickety-brindle
lickety-cut
lickety-split
licking disease
licking stone
licorice fern
licorice powder
licorice root
licorice stick
licorice sugar
licorice vetch
licorice vine
licorice weed
lid cell
lid slit
lidless eye
lidless vigil
lie a course
lie across
lie ahead
lie ahull
lie along
lie along the shore
lie around
lie at the heart
lie at the root of
lie at your door
lie athwart
lie back on your record
lie beam on to the seas
lie beneath
lie by
lie close
lie close to the wind
lie detector
lie doggo
lie dormant
lie down
lie down and roll over for
lie down on the job
lie fallow
lie flat
lie flatly
lie hard upon
lie heavy
lie heavy upon
lie hid
lie hidden
lie idle
lie in
lie in Abraham's bosom
lie in ambush
lie in state
lie in the grave
lie in wait
lie in wait for
lie in your course
lie in your power
lie in your throat
lie like a trooper
lie limply
lie low
lie near the wind
lie of the land
lie off
lie off the land
lie on
lie on a level
lie on a level with
lie on the shelf
lie on the surface
lie on your back
lie on your face
lie on your head
lie opposite
lie out of
lie over
lie prone
lie prostrate
lie snug
lie still
lie supine
lie through your teeth
lie to
lie under
lie under a necessity
lie under an obligation
lie under the surface
lie up
lie upon
lie upon your oars
lie with
lie-abed
lie-by
lie-bys
lie-down
lied form
lieder singer
liege lord
liege man
liege poustie
liege subject
liege woman
liege-manship
lieno-
lieu commun
lieue marine
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
lieutenant-colonelcy
lieutenant-general
lieutenant-governorship
life span
life story
life style
life table
life to come
life upon the larger scale
life vest
life zone
life's duration
life's guide
life's work
life-abhorring
life-and-death
life-and-death struggle
life-bearing
life-beaten
life-begetting
life-bereft
life-blood
life-breathing
life-bringing
life-consuming
life-creating
life-crowded
life-deserted
life-destroying
life-devouring
life-diffusing
life-ending
life-enriching
life-force
life-giver
life-giving
life-guard
life-guardsman
life-hugging
life-infatuate
life-infusing
life-invigorating
life-lengthened
life-like
life-lorn
life-lost
life-maintaining
life-or-death
life-or-death struggle
life-outfetching
life-penetrated
light beer
light bob
light bomber
light box
light bread
light breeze
light bridge
light bulb
light colonel
light comedian
light comedy
light cream
light cruiser
light curve
light displacement
light draft
light dragoon
light engine
light equation
light face
light filter
light fingers
light fixture
light flyweight
light globe
light gunmetal
light harmony
light harness
light headed
light heart
light heavyweight
light holder
light holders
light horse
light horseman
light housekeeping
light infantryman
light into
light line
light load line
light lock
light lunch
light machine gun
light magnesia
light meal
light measure
light meat
light metals
light meter
light middleweight
light mineral
light mineral oil
light music
light of day
light of heel
light of love
light of your eye
light of your life
light oil
light on
light opera
light out
light pen
light plot
light purse
light quantum
light railroad
light reaction
light red
light repast
light shield
light show
light sleep
light socket
light source
light texture
light the fuse
light the way
light touch
light tower
light transport
light trap
light treatment
light unit
light up
light upon
light valve
light verse
light weight
light welterweight
light whiskey
light wind
light wine
light year
light-adapted
light-armed
light-beam telephone
light-bearded
light-bellied
light-blue
light-bluish
light-bob
light-bodied
light-borne
light-bounding
light-brained
light-built
light-causing
light-century
light-charged
light-cheap
light-clad
light-colored
light-complexioned
light-creating
light-diffusing
light-disposed
light-drab
light-draft
light-embroidered
light-faced
light-fast
light-fingered
light-fingered gentry
light-fingeredness
light-foot
light-footed
light-footedly
light-footedness
light-gilded
light-giving
light-grasp
light-grasping
light-gray
light-green
light-haired
light-handed
light-handedly
light-handedness
light-harnessed
light-hating
light-headed
light-headedly
light-headedness
light-hearted
light-heartedly
light-heartedness
light-heeled
light-horseman
light-horsemen
light-hued
light-intensity control
light-intensity indicator
light-leaved
light-legged
light-limbed
light-loaded
light-locked
light-marching
light-minded
light-mindedly
light-mindedness
light-o'-love
light-o'love
light-of-love
light-pervious
light-poised
light-producing
light-proof
light-reactive
light-refracting
light-refractive
light-robed
light-rooted
light-rootedness
light-scattering
light-sensitive
light-skinned
light-skirts
light-spirited
light-spreading
light-struck
light-thoughted
light-timbered
light-tongued
light-treaded
light-veined
light-waved
light-weight
light-winged
light-witted
light-year
light-years
light-yellow
lighten one of
lightening hole
lighter discharger
lighter staff
lighter than air
lighter than vanity
lighter-than-air
lighter-than-air aviation
lighter-than-air craft
lighthouse clock
lighthouse coffeepot
lighthouse keeper
lighthouse tube
lighting off
lighting up
lighting-up time
lightish-blue
lightly touching
lightning arrester
lightning attack
lightning beetle
lightning bug
lightning conductor
lightning discharge
lightning express
lightning file
lightning gods
lightning pains
lightning protector
lightning rod
lightning saw
lightning speed
lightning stone
lightning switch
lightning tooth
lightning tube
lightning war
lightning-like
lights out
lights-out
lign-
lign-aloes
lignaloe oil
lign-
ligninsulphonic acid
lignite wax
ligno-
lignosulphonic acid
lignum aloes
lignum vitae
ligulate-flowered
liguli-
like Niobe
like Swiss cheese
like a bat out of hell
like a blue streak
like a bolt from the blue
like a book
like a bulldog
like a coward
like a drowned rat
like a fish out of water
like a flash
like a furnace
like a horse in a mill
like a house afire
like a lamb
like a leech
like a lord
like a man
like a prune
like a scared rabbit
like a shot
like a shot out of hell
like a soldier
like a streak
like a streak of lightning
like a thief in the night
like a thunderbolt
like a thunderclap
like a trooper
like all creation
like all forty
like all get-out
like an oven
like anything
like as not
like best
like better
like blazes
like buckets in a well
like cats and dogs
like clockwork
like crazy
like dough
like enough
like figures
like for like
like fun
like fury
like grains of sand
like greased lightning
like hell I will
like it is
like lightning
like mad
like new
like no other
like nothing
like one possessed
like parchment
like putty
like putty in your hands
like sardines in a can
like shooting fish in a barrel
like sin
like sixty
like so
like sweet bells jangled
like taking candy from a baby
like that
like the rock of Gibraltar
like this
like to
like two drops of water
like water
like wax
like wildfire
like---but oh how different
like-eyed
like-fashioned
like-featured
like-looking
like-made
like-minded
like-mindedly
like-natured
like-persuaded
like-sex
like-shaped
like-sized
liked to
likely lad
likely story
likely to
liken to
likes of
lilac gray
lilac mildew
lilac-banded
lilac-blue
lilac-colored
lilac-flowered
lilac-headed
lilac-mauve
lilac-pink
lilac-purple
lilac-tinted
lilac-violet
lilies of the valley
lilly-low
lilly-pilly
lily bell
lily bellflower
lily bind
lily family
lily flower
lily grass
lily green
lily iron
lily leek
lily liver
lily of the valley
lily pad
lily palm
lily pink
lily thorn
lily-cheeked
lily-clear
lily-cradled
lily-crowned
lily-fingered
lily-flower
lily-liver
lily-livered
lily-liveredness
lily-paved
lily-pot
lily-robed
lily-shaped
lily-shining
lily-tongued
lily-trotter
lily-white
lily-whiteness
lily-wristed
lima bean
limb-meal
limber as a dishrag
limber board
limber chest
limber hole
limber pine
limber rope
limber up
limb-neck
limber-twist pine
limbic lobe
limbic system
limbo patrum
limbs of Satan
lime anthracnose
lime boil
lime buffer
lime burner
lime epidote
lime feldspar
lime glass
lime grass
lime green
lime harmotome
lime hydrate
lime juice
lime liniment
lime mesotype
lime nitrogen
lime pit
lime plant
lime soap
lime sulfur
lime tree
lime twig
lime uranite
lime-ash
lime-boiled
lime-burner
lime-juicer
limping meters
limping standard
limu-eleele
limu-kohu
lin ft
lin tree
lin-lan-lone
linalyl acetate
linch-pin
linden borer
linden family
linden green
linden inchworm
linden leaf beetle
linden yellow
lindy hop
line ahead
line block
line breaker
line breeding
line buck
line caster
line chief
line co-ordinates
line copy
line cut
line displacement
line drawing
line drive
line drop
line engraver
line engraving
line equation
line gale
line gauge
line geometry
line hunter
line integral
line letter
line loss
line microphone
line of action
line of apsides
line of battle
line of business
line of circumvallation
line of credit
line of defense
line of demarcation
line of departure
line of descent
line of direction
line of duty
line of endeavor
line of fire
line of flight
line of force
line of goods
line of induction
line of march
line of position
line of scrimmage
line of sight
line of sighting
line of site
line of succession
line of thrust
line of type
line of vision
line of work
line officer
line out
line printer
line radio
line relay
line riding
line space
line spectrum
line squall
line storm
line switch
line symmetry
line test
line up
line up with
line vector
line voltage
line your pockets
line-bred
line-breed
line-bucker
line-casting
line- engraving
line-firing
line-haul
line-hunting
line-of-battle ship
line-out
line-roll conveyer
line-sequential
line-sequential color television
line-throwing rocket
line-up
lineal measure
lineal promotion
lineal rank
lineal relation
linear accelerator
linear algebra
linear calibrations
linear chromatism
linear chromatist
linear coefficient
linear combination
linear complex
linear content
linear dependence
linear differential equation
linear differential form
linear equation
linear fractional transformation
linear function
linear functional
linear graph
linear independence
linear lead
linear manifold
linear measure
linear measures
linear micrometer
linear motor
linear operation
linear operator
linear perspective
linear polarization
linear problem
linear programming
linear projection
linear segment
linear set
linear space
linear substitution
linear system
linear tactics
linear transformation
linear-acute
linear-attenuate
linear-awled
linear-elliptical
linear-elongate
linear-ensate
linear-filiform
linear-lanceolate
linear-leaved
linear-ligulate
linear-oblong
linear-ovate
linear-setaceous
linear-shaped
linear-subulate
linearly ordered set
lined blade
lined gold
lined up
linen closet
linen draper
linen draperess
linen drapery
linen floss
linen fold
linen machine
linen panel
linen paper
linen pattern
linen wedding
linen-armourer
lines drawing
lines plan
ling cod
ling pink
linga sharira
linger behind
linger on
lingoa wood
lingu-
lingua crioula
lingua franca
lingua francas
lingua geral
lingua rustica
lingua vulgaris
linguae francae
lingual artery
lingual bone
lingual delirium
lingual gyrus
lingual hemorrhoid
lingual nerve
lingual protrusion lisp
lingual ribbon
lingual titubation
linguistic act
linguistic ambience
linguistic analysis
linguistic area
linguistic atlas
linguistic behavior
linguistic borrowing
linguistic community
linguistic finesse
linguistic form
linguistic geographer
linguistic geography
linguistic intercourse
linguistic island
linguistic scholar
linguistic science
linguistic scientist
linguistic stock
linguistic structure
linguistic tact
linguo-
lining cloth
lining sight
lining stitcher
lining-out
lining-up
link block
link motion
link polygon
link up
link verb
link with
link-boy
link-up
linkage formula
linkage group
linkage groups
linked rhyme
linked to
linked verse
linking r
linking verb
linnet hole
lino tile
lino-typist
linoleic acid
linolenic acid
linoleum block
linoleum knife
linoleum-block print
linoleum-block printing
linolic acid
linotype operator
linseed cake
linseed meal
linseed oil
linseed tea
linsey-woolsey
linsey-woolseys
lint bells
lint bow
lint index
lint-white
lion ant
lion dollar
lion dragon
lion leopard
lion lizard
lion monkey
lion poisson
lion tamer
lion's share
lion-bold
lion-color
lion-drunk
lion-footed
lion-guarded
lion-haunted
lion-headed
lion-heart
lion-hearted
lion-hided
lion-hued
lion-like
lion-maned
lion-mettled
lion-tailed
lion-tailed macaque
lion-tailed monkey
lion-tawny
lion-thoughted
lion-toothed
lip bit
lip comfort
lip comforter
lip devotion
lip fern
lip homage
lip labor
lip loyalty
lip microphone
lip molding
lip plug
lip praise
lip reader
lip reading
lip reverence
lip rouge
lip server
lip service
lip stop
lip strike
lip wisdom
lip worship
lip worshiper
lip-
lip-back
lip-bearded
lip-blushing
lip-born
lip-deep
lip-good
lip-labour
lip-learned
lip-licking
lip-open
lip-read
lip-reading
lip-red
lip-round
lip-rounding
lip-smacking
lip-spreading
lip-teeth
lipid histiocytosis
lipo-
lipoid pneumonia
liquefied petroleum gas
liqueur glass
liquid absolute
liquid air
liquid apiol
liquid assets
liquid assets ratio
liquid coal
liquid compass
liquid conduction
liquid crystal
liquid crystal display
liquid extract
liquid fire
liquid fuel
liquid glass
liquid gold
liquid helium
liquid measure
liquid nitrogen
liquid oxygen
liquid paraffin
liquid petrolatum
liquid pint
liquid quart
liquid soap
liquid storax
liquid-fuel rocket
liquid-level control
liquid-level indicator
liquid-level sensor
liquidating dividend
liquidity preference
liquidity ratio
liquidus curve
liquor dealer
liquor maker
liquor merchant
liquor store
liquor store owner
liquor tax
liquor up
liquor-drinking
liquor-loving
liquorice allsorts
lira da braccio
liras da braccio
lire da braccio
lis pendens
lisle hose
lisle thread
lisp in numbers
list of
list of agenda
list pot
list price
list system
listed building
listed securities
listen at
listen in
listen to
listen to reason
listen with both ears
listener-in
listening cam
listening in
listening post
lister cultivator
lister drill
lister planter
lister plough
lister plow
listing machine
lit de justice
lit to the gills
lit up
litany stool
litchi nut
literacy test
literae humaniores
literae scriptae
literal error
literal meaning
literal translation
literal-minded
literalists of the imagination
literary agent
literary artefact
literary artifact
literary artisan
literary artist
literary artistry
literary composition
literary craftsman
literary critic
literary criticism
literary elegance
literary flair
literary hack
literary inelegance
literary journeyman
literary language
literary man
literary piracy
literary pirate
literary power
literary production
literary remains
literary style
literary talent
literature of the field
lith-
lithia emerald
lithia mica
lithia water
lithic acid
lithium aluminum hydride
lithium chloride
lithium fluoride
lithium oxide
lithium stearate
litho purple
litho-
lithographic stone
litis contestatio
litmus milk
litmus paper
litmus test
litter lout
litter-bearer
litterae humaniores
little Joe
little Mary
little Miss Fixit
little angel
little auk
little auk
little bear
little bit
little bite
little black ant
little blue heron
little bluestem
little boys' room
little brain
little brother
little brown jug
little bugger
little businessman
little by little
little casino
little chance
little cherub
little darling
little devil
little doll
little egret
little end
little expectation
little fellow
little finger
little game
little girls' room
little good
little grebe
little green man
little gull
little guy
little guys
little hours
little house
little innocent
little kids
little known
little leaf
little magazine
little man
little master
little millet
little missy
little monkey
little office
little one
little ones
little opportunity
little owl
little people
little people, the
little person
little pitcher with big ears
little problem
little quaking grass
little rascal
little recall
little red schoolhouse
little retentivity
little shaver
little slam
little smack
little spotted cat
little squirt
little summer of St
little tad
little talk
little terror
little theater
little theatre
little thing
little toe
little tot
little voice
little ways
little while
little white lie
little woman
little, a
little-able
little-bitsy
little-bitty
little-boukit
little-branched
little-by-little
little-ease
little-footed
little-girlish
little-girlishness
little-go
little-haired
little-headed
little-known
little-loved
little-minded
little-mindedness
little-prized
little-read
little-regarded
little-statured
little-trained
little-traveled
little-used
little-worth
littleneck clam
littoral zone
liturgical east
liturgical garments
liturgical music
liturgical north
liturgical south
liturgical west
litz wire
live a cat-and-dog life
live a life of ease
live again
live alone
live and breathe
live and learn
live and let live
live apart
live as man and wife
live at
live beyond your means
live by your wits
live center
live centre
live circuit
live coal
live down
live fast
live for the day
live forever
live from hand to mouth
live frugally
live hard
live high
live high off the hog
live high on the hog
live in
live in a glass house
live in clover
live in hopes
live in peace
live in retirement
live in your memory
live it up
live like a pig
live like cat and dog
live like the grasshopper
live load
live matter
live oak
live off of
live off the fat of the land
live on
live on the fat of the land
live on velvet
live one
live or die
live outside the law
live parking
live peaceably with all men
live plainly
live show
live simply
live spindle
live steam
live stock
live temperately
live the life of Riley
live through
live through it
live to a ripe old age
live to eat
live to fight another day
live together
live trap
live up
live up to
live upon
live upon nothing
live well
live wire
live with
live with it
live within your income
live-bearer
live-bearing
live-box
live-ever
live-forever
live-front switchboard
live-in maid
live-in-idleness
live-oak
live-out maid
live-sawed
live-virus vaccine
lived-in
lively imagination
lively interest
lively market
lively pace
liven vivificate
liver and lights
liver and onions
liver balsam
liver brown
liver chestnut
liver death
liver disease
liver extract
liver fluke
liver fluke disease
liver fungus
liver lily
liver maroon
liver of sulfur
liver of sulphur
liver rot
liver salts
liver sausage
liver sausage tree
liver shark
liver spots
liver-brown
liver-colored
liver-hued
liver-moss
liver-rot
liver-white
liveried servant
liverwort lettuce
livery colors
livery company
livery cupboard
livery servant
livery stable
livery-man
livery-stable
livestock insurance
livid brown
livid pink
livid purple
livid violet
livid with rage
livid-brown
living being
living death
living force
living fossil
living hall
living image
living in
living issue
living language
living machine
living matter
living nature
living picture
living pledge
living quarters
living rock
living room
living sapphires
living soul
living space
living thing
living trust
living wage
livre jaune
livre parisis
livre tournois
lizard bronze
lizard fish
lizard flower
lizard green
lizard seeker
lizard's-tail
lizards-tail
lizardtail grass
llama hair
lm-hr
lm/W
lo and behold
loa loa
load chart
load control
load displacement
load draft
load factor
load fund
loan-sharking
loaned stock
loaves and fishes
lob's pound
lob-
lob-worm
lobar pneumonia
lobato-
lobato-digitate
lobato-divided
lobato-foliaceous
lobato-partite
lobato-ramulose
lobby pine
lobby through
lobed-leaved
lobelia blue
lobelia family
lobelia violet
loblolly bay
loblolly boy
loblolly pine
loblolly sweetwood
loblolly tree
lobster Newburg
lobster Newburgh
lobster Thermidor
lobster caterpillar
lobster crab
lobster flower
lobster moth
lobster newburg
lobster pot
lobster roll
lobster shift
lobster thermidor
lobster tour
lobster trap
lobster trick
lobster-horns
lobster-red
lobster-tail
lobster-tail helmet
lobster-tailed
lobsters-claw
lobular pneumonia
lobular pump
loc cit
local anaesthetic
local anesthetic
local authority
local call
local case
local color
local colour
local dialect
local economy
local examinations
local express
local government
local horizon
local law
local maximum
local minimum
local office
local option
local optioner
local optionism
local optionist
local oscillator
local oscillator signal
local road
local stamp
local tax
local time
local union
local wind
local yokel
local-option law
local-oscillator tube
locally Euclidean space
locally compact space
locally finite set
loci classici
loci sigilli
lock bay
lock forward
lock gate
lock horns
lock hospital
lock in
lock nut
lock off
lock on
lock on to
lock out
locomotor ataxia
loprimo citato
loctal base
locum tenens
locum tenentes
locum-tenency
locus classicus
locus communis
locus in quo
locus sigilli
locus standi
locust bean
locust beetle
locust bird
locust eater
locust lobster
locust mite
locust moth
locust plant
locust pod
locust sawfly
locust shrimp
locust tree
locust-kernel gum
locust-tree
lode claim
loden coat
loden green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgepole pine
lodger bee
lodger franchise
lodging house
lodging knee
lodging place
lodging turn
lodh bark
loft-dried
lofting iron
lofty affectations
lofty airs
lofty ambition
lofty mountains
lofty peak
lofty-browed
lofty-headed
lofty-humored
lofty-looking
lofty-minded
lofty-notioned
lofty-peaked
lofty-plumed
lofty-roofed
lofty-sounding
log bunk
log cabin
log canoe
log carriage
log chip
log deck
log dog
log drive
log driver
log driving
log fixer
log frame
log glass
log jack
log jam
log kicker
log line
log loader
log measure
log peeler
log perch
log reel
log rule
log run
log runner
log scale
log scaler
log ship
log slate
log tooth
log turner
log-
log-book
log-log
log-roll
log-roller
log-rolling
logan apple
logan stone
loiter about
loiter around
loiter away the time
loiter behind
loiter out the time
loll around
loll shraub
loll-shraub
lollipop around
lolly water
lombard street
lombard-street
lomi-lomi
london pride
lone hand
lone pair
lone wolf
lone woman
lonely end
lonely heart
lonesome end
long accent
long account
long ago
long arm
long ballot
long bill
long bob
long bone
long card
long chair
long chalk
long clam
long cloth
long coat
long cross
long distance
long division
long dozen
long drink of water
long duration
long ess
long face
long fake
long for
long gallery
long game
long green
long haul
long home
long hop
long horn
long horse
long house
long hundred
long hundredweight
long in the tooth
long interest
long iron
long jenny
long johns
long jump
long life
long life to
long mane
long mark
long market
long measure
long metre
long mordent
long moss
long odds
long on looks
long pants
long pennant
long pig
long play
long pooper
long primer
long pull
long purse
long range
long range aid to navigation
long rifle
long road
long robe
long rod
long rope
long run
long shanks
long shot
long side
long sight
long since
long splice
long standing
long step
long stock
long sufferance
long suit
long sweetening
long sword
long tether
long time
long tin
long to
long tom
long ton
long tongue
long topgallant mast
long trail
long trousers
long underwear
long vacation
long view
long vowel
long wave
long way
long while
long word
long-
long-accustomed
long-acre
long-agitated
long-ago
long-and-short work
long-arm
long-arm balance
long-armed
long-awaited
long-awned
long-axed
long-backed
long-barreled
long-beaked
long-bearded
long-bellied
long-berried
long-billed
long-boat
long-bodied
long-borne
long-bow
long-bracted
long-branched
long-breathed
long-buried
long-celled
long-chained
long-clawed
long-coated
long-coats
long-contended
long-continued
long-continuing
long-coupled
long-crested
long-cycle
long-cycled
long-dated
long-day
long-dead
long-delayed
long-descending
long-deserted
long-desired
long-destroying
long-distance
long-distance call
long-docked
long-drawn
long-drawn-out
long-eared
long-eared owl
long-enduring
long-established
long-exerted
long-expected
long-experienced
long-extended
long-eyed sharp
long-faced
long-faded
long-favored
long-fed
long-fiber
long-fibered
long-fin tunny
long-fingered
long-finned
long-flaked coil
long-fleeced
long-flowered
long-footed
long-forgotten
long-fronted
long-fruited
long-gown
long-gowned
long-grassed
long-hair
long-haired
long-hairy griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heeled
long-hid
long-horned
long-horned beetle
long-horned grasshopper
long-jawed
long-jointed
long-journey
long-kept
long-lacked
long-lasting
long-lastingness
long-leaved
long-leaved bent
long-leaved pine
long-leg
long-legged
long-limbed
long-line
long-lined
long-liner
long-lining
long-lived
long-livedness
long-living
long-locked
long-lost
long-lunged
long-locked
long-memoried
long-nebbed
long-neck clam
long-necked
long-nosed
long-off
long-on
long-parted
long-past
long-pasterned
long-pending
long-period variable
long-planned
long-playing
long-plumed
long-pod
long-podded
long-possessed
long-projected
long-protracted
long-quartered
long-range
long-range attack aircraft
long-range bomber
long-range forecasting
long-range heavy bomber
long-range medium bomber
long-range patrol bomber
long-range plan
long-range planning
long-range radar
long-range rocket
long-reaching
long-resounding
long-ribbed
long-ridged
long-robed
long-roofed
long-rooted
long-saved
long-settled
long-shaded
long-shadowed
long-shafted
long-shanked
long-shaped
long-shore
long-shut
long-sighted
long-sightedness
long-skulled
long-sleeved
long-snouted
long-sought
long-span
long-spine
long-spined
long-spun
long-spurred
long-staffed
long-stalked
long-standing
long-staple
long-staple isinglass
long-stapled
long-stemmed
long-stocked
long-streaming
long-stretched
long-stroke
long-styled
long-succeeding
long-sufferance
long-suffered
long-suffering
long-sufferingly
long-sundered
long-tail
long-tailed
long-tailed chat
long-tailed tit
long-term
long-term bond
long-term loan
long-term memory
long-termer
long-thinking
long-threatened
long-time
long-timed
long-toed
long-toed stint
long-tongue
long-tongued
long-toothed
long-traveled
long-visaged
long-waisted
long-wandered
long-wandering
long-wave
long-wedded
long-winded
long-windedly
long-windedness
long-winged
long-wire aerial
long-wire antenna
long-wished
long-withdrawning
long-withheld
long-wooled
long-worded
longcase clock
longed-for
longhair music
longi-
longicorn beetle
longing eye
longing for the past
longitude by account
longitude in arc
longitude in time
longitudinal axis
longitudinal coefficient
longitudinal framing
longitudinal magnification
longitudinal section
longitudinal stability
longitudinal wave
longleaf pine
longleaf yellow pine
longschat pine
longshore drift
longways dance
loo mask
look a fright
look a gift horse in the mouth
look a mess
look a sight
look about for
look about one
look after
look after your fences
look after your own interests
look aghast
look agog
look ahead
look alive
look all over
look all over hell
look another way
look around
look around for
look as if you had seen a ghost
look aside
look askance
look askance at
look askant
look asquint
look at
look at in the light of
look at it
look away
look back
look back on
look back upon things past
look bad
look beautiful
look before you leap
look beyond
look big
look black
look black as thunder
look black upon
look bleak
look blue
look closely at
look coldly upon
look cool upon
look daggers
look daggers at
look dark
look down
look down on
look down over
look down upon
look down your nose
look down your nose at
look everywhere
look fit to kill
look foolish
look for
look for a needle in a haystack
look for time
look for trouble
look forth
look forward to
look full in the face
look good
look green about the gills
look guilty
look here
look high and low
look in
look in on
look in the face
look in your eyes
look into
look into every hole and corner
look into the future
look kindly upon
look like
look like a million
look like hell
look like the devil
look lively
look on
look on the bright side
look on the dark side
look on with the evil eye
look out
look out for
look out for number one
look out upon
look over
look right through
look round
look serious
look sharp
look silly
look slippy
look something terrible
look straight in the eye
look straight in the eyes
look sullen
look sweet upon
look the other way
look threatening
look through
look to
look to be
look to your laurels
look toward
look up
look up and down
look up to
look upon
look upon as
look upstairs and downstairs
look with scorn upon
look with your own eyes
look you
look you in the eye
look you in the face
look you up
look-alike
look-alikes
look-down
look-in
look-over
look-see
look-through
look-up
looked-for
looker-on
lookers-on
looking ahead
looking back
looking fit to kill
looking for
looking forward to
looking glass
looking out the window
looking up
looking-glass
looking-glass bush
lookout man
loom joiner
loom large
loom of the land
loom oiler
loom tenter
loom turner
loom weaver
loom-state
looming in the distance
looming in the future
loony bin
loop aerial
loop antenna
loop back
loop in
loop knot
loop line
loop of Henle
loop stitch
loop the loop
loop winding
loop window
loop-hole
loop-the-loop
loophole frame
looping mill
looping the loop
loose bowels
loose change
loose construction
loose cover
loose end
loose ends
loose for sea
loose formation
loose memory
loose morals
loose order
loose purse strings
loose sentence
loose smut
loose thread
loose tongue
loose translation
loose woman
loose-barbed
loose-bodied
loose-coupled
loose-curved
loose-driving
loose-enrobed
loose-fibered
loose-fitting
loose-fleshed
loose-floating
loose-flowered
loose-flowing
loose-footed
loose-footed sail
loose-girdled
loose-gowned
loose-handed
loose-hanging
loose-hipped
loose-hung
loose-joint hinge
loose-jointed
loose-kneed
loose-leaf
loose-leaf notebook
loose-limbed
loose-lipped
loose-lived
loose-living
loose-locked
loose-lying
loose-mannered
loose-moraled
loose-necked
loose-packed
loose-panicled
loose-principled
loose-robbed
loose-skinned
loose-spiked
loose-thinking
loose-tongued
loose-topped
loose-wadded
loose-wived
loose-woven
loose-writ
loosen the purse strings
loosen up
looseness of the bowels
lop-ear
lop-eared
lop-sided
lopho-
loppered milk
lord and master
lord bird
lord chancellor
lord it over
lord lieutenant
lord mayor
lord of creation
lord of misrule
lord of the bedchamber
lord of the manor
lord paramount
lord spiritual
lord temporal
lord trier
lord's day
lord's prayer
lord's supper
lord's table
lord-in-waiting
lord-lieutenancy
lord-lieutenant
lords and ladies
lords of creation
lords temporal and spiritual
lords-and-ladies
lords-in-waiting
lorraine cross
lose altitude
lose blood
lose caste
lose color
lose countenance
lose courage
lose credit
lose currency
lose distinctness
lose face
lose flesh
lose ground
lose heart
lose heat
lose hope
lose momentum
lose no time
lose novelty
lose one
lose one's cookies
lose out
lose patience
lose power
lose resolution
lose self-control
lose sharpness
lose sight of
lose speed
lose strength
lose the chance
lose the day
lose the opportunity
lose the will to live
lose time
lose track of
lose weight
lose your good name
lose your grip
lose your head
lose your hearing
lose your heart
lose your heart to
lose your life
lose your nerve
lose your reason
lose your senses
lose your shirt
lose your sight
lose your temper
lose your tongue
lose your vision
lose your way
lose your wits
lose yourself in
lose-out
losh hide
losh leather
losing game
losing hazard
losing streak
losing your touch
loss leader
loss of contact with reality
loss of ground
loss of hearing
loss of honor
loss of innocence
loss of life
loss of memory
loss of mind
loss of name
loss of reason
loss of repute
loss of speech
loss of tone
loss of touch with reality
loss of voice
loss of your illusions
loss ratio
lost cause
lost in
lost in amazement
lost in thought
lost in wonder
lost lamb
lost language
lost motion
lost river
lost sheep
lost soul
lost souls
lost to
lost to all sense of honor
lost to shame
lost to sight
lost to view
lost tribes
lost-wax process
lot on
lot out
lot, a
lot, the
lote bush
lots of laughs
lotus grass
lotus land
lotus position
lotus-eater
lotus-eating
loud and clear
loud color
loud noise
loud pedal
loud sound
loud-acclaiming
loud-applauding
loud-bellowing
loud-blustering
loud-calling
loud-clamoring
loud-cursing
loud-hailer
loud-laughing
loud-mouth
loud-mouthed
loud-mouthises
loud-ringing
loud-roared
loud-roaring
loud-screaming
loud-singing
loud-sounding
loud-speaker
loud-speaking
loud-spoken
loud-squeaking
loud-thundering
loud-ticking
loud-voiced
loudspeaker van
loudy-da
lough diver
louis d'or
louis quatorze
louis quinze
louis seize
louis treize
lounge around
lounge bar
lounge car
lounge chair
lounge lizard
lounge suit
lounging jacket
lounging pajamas
lounging robe
loup cervier
loup-cervier
loup-garou
louping ill
loups-garous
louse herb
louse up
louse-up
loused up
lousy knave
lousy rich
lousy with
louver board
louver boards
louver window
love God
love affair
love apple
love arrows
love charm
love chest
love child
love deities
love ditty
love feast
love game
love god
love goddess
love grass
love interest
love knot
love letter
love match
love nest
love of God
love of country
love of mankind
love potion
love seat
love set
love song
love story
love the sound of your own voice
love to
love to distraction
love vine
love-anguished
love-apple
love-begot
love-begotten
love-bird
love-bitten
love-born
love-breathing
love-crossed
love-darting
love-delighted
love-devouring
love-drury
love-entangle
love-entangled
love-enthralled
love-feast
love-illumined
love-in-a-mist
love-in-idleness
love-inspired
love-inspiring
love-knot
love-lacking
love-laden
love-learned
love-lies-bleeding
love-lilt
love-lorn
love-mad
love-madness
love-maker
love-making
love-mourning
love-performing
love-sick
love-smitten
love-spent
love-starved
love-stricken
love-touched
love-whispering
love-worthiness
love-worthy
love-wounded
loved one
lovely as the day
lovely build
lovely time
lovely to behold
lover of beauty
lover of learning
lover of wisdom
lover's knot
lover's leap
lover-boy
lovers' lane
lovey-dovey
loving care
loving couple
loving cup
loving kindness
loving-kindness
low IQ
low area
low beam
low blood pressure
low brass
low bunt
low camp
low charge
low church
low class
low comedian
low comedy
low cunning
low down
low estimation
low explosive
low fellow
low frequency
low fulham
low german
low grade
low green tent
low ground
low grounds
low growth rate
low house
low hurdles
low in the pecking order
low latin
low man on the totem pole
low mass
low milling
low opinion
low order of importance
low order of probability
low pitch
low price
low price tag
low prices
low priority
low profile
low quality
low relief
low rumbling
low sodium diet
low spear grass
low spirits
low sunday
low tariff
low taste
low temperature
low tide
low visibility
low voice
low water
low wine
low wines
low-altitude bombing
low-arched
low-backed
low-bellowing
low-bended
low-blast
low-blooded
low-bodied
low-boiling
low-born
low-boughed
low-bowed
low-breasted
low-bred
low-brow
low-browed
low-built
low-calorie diet
low-camp
low-capacitance probe
low-carbohydrate diet
low-caste
low-ceiled
low-ceilinged
low-charge
low-churchman
low-class
low-conceited
low-conditioned
low-consumption
low-cost
low-country
low-crested
low-crowned
low-current
low-cut
low-deep
low-down
low-down dirty shame
low-downer
low-downness
low-ebbed
low-energy fission
low-filleted
low-resistance
low-rimmed
low-rise
low-roofed
low-salt diet
low-set
low-sized
low-sounding
low-spirited
low-spiritedly
low-spiritedness
low-spoken
low-statured
low-temperature
low-tension
low-test
low-thoughted
low-toned
low-tongued
low-tread
low-uttered
low-voiced
low-voltage
low-voltage protection
low-voltage release
low-waisted
low-water
low-water mark
low-wattage
low-wheeled
low-wing monoplane
low-withered
low-witted
low-yield nuclear weapons
lowbush blueberry
lowdown, the
lower apsis
lower atmosphere
lower berth
lower bo
lower boom
lower bound
lower case
lower chamber
lower class
lower classes
lower criticism
lower deck
lower frequencies
lower fungus
lower hold
lower house
lower limit
lower mast
lower middle class
lower mizzen-topsail yard
lower mordent
lower oneself
lower orders
lower ranks
lower regions
lower sail
lower school
lower semi-continuous function
lower semicontinuous function
lower side
lower status
lower strata
lower studding sail
lower the boom
lower the spirits
lower world
lower your colors
lower your flag
lower your guard
lower your note
lower your tone
lower yourself
lower-boom topping lift
lower-case
lower-case alphabet
lower-cased
lower-casing
lower-income housing
lowering yourself
lowest common denominator
lowest common multiple
lowest layer
lowest level
lowest point
lowest stratum
lowest terms
lowland fir
lowland plover
lowland white fir
lowness of spirit
lowside window
loxa bark
loyal friendship
loyal opposition
loyalty oath
lozenge perforation
lozenge-shaped
lpW
lt-yr
lubber fend
lubber fiend
lubber grasshopper
lubber line
lubber's hole
lubber's knot
lubber's line
lubber's mark
lubber's point
lubber-hole
lube oil
lubricating agent
lubricating oil
lucid interval
lucid stillness
lucifer match
luck of the draw
luck penny
lucken gowan
lucky bean
lucky break
lucky dip
lucky dog
lucky person
lucky piece
lucky shot
lucky strike
lucky-bag
lucrative interest
lucus a non lucendo
ludicro-
lufbery circle
luff on luff
luff tackle
luff up
luff upon luff
lug foresail
lug hook
lug in
lug in by the heels
lug nut
lug pad
lug screw
lug sill
lug topsail
lug wrench
lug-rigged
lug-worm
luggage shop
luggage tan
luggage train
luggage van
lugger topsail
lukewarm piety
lukewarm support
lull before the storm
lull to sleep
lullaby vt
lumb-
lumbar puncture
lumbar region
lumbar rheumatism
lumber jacket
lumber kiln
lumber room
lumber-pie
lumbering pace
lumberman's saw
lumbo-
lumbo-abdominal
lumbo-aortic
lumbo-iliac
lumbo-inguinal
lumbo-ovarian
lumen meter
lumen-hour
lumin-
luminosity curve
luminous efficacy
luminous efficiency
luminous emittance
luminous energy
luminous exitance
luminous flux
luminous flux density
luminous intensity
luminous paint
luminous power
luminous range
lump coal
lump it
lump of sugar
lump sucker
lump sum
lump together
lump-fish
lumpen proletariat
lumpy jaw
luna cornea
luna moth
lunar base
lunar caustic
lunar city
lunar colony
lunar corona
lunar cycle
lunar day
lunar distance
lunar eclipse
lunar excursion module
lunar halo
lunar insertion
lunar landscape
lunar mare
lunar module
lunar month
lunar orbit
lunar rainbow
lunar rill
lunar rille
lunar tide
lunar waste
lunar year
lunar-diurnal
lunatic asylum
lunatic fringe
lunch break
lunch counter
lunch hour
lunch time
lunch wagon
luncheon bar
luncheon meat
luncheon voucher
lung book
lung cancer
lung fever
lung fish
lung fluke
lung plague
lung sickness
lunge at
lungworm disease
lunisolar precession
lunitidal interval
lupus erythematous
lupus vulgaris
lurid imagination
lurking hole
lurking place
lush up
lust after
lust for
lust for knowledge
lust for learning
lust-born
lust-burned
lust-burning
lust-engendered
lust-stained
lust-tempting
luster pottery
luster wool
lustful leer
luts of the flesh
lusus naturae
lute maker
lute player
lute stern
lute tablature
lute-
lute-backed
lute-fashion
lute-playing
lute-string
lute-voiced
luteinizing hormone
luteo-
lutine bell
luting paste
luxuriate in
luxuriate on
luxury liner
luxury price
luxury tax
luxury-loving
luxury-proof
lyam-hound
lych gate
lych-gate
lychee nut
lycoperdon nut
lycoperdon powder
lye boil
lygaeid bug
lygus bug
lying ahull
lying down
lying hid
lying in ambush
lying in wait
lying low
lying press
lying pretension
lying to
lying wall
lying-in
lying-in hospital
lying-ins
lyings-in
lyke-wake
lyme grass
lyme-grass
lyme-hound
lymph cell
lymph corpuscle
lymph gland
lymph heart
lymph node
lymph nodule
lymph-
lymph-vascular
lymphatic gland
lymphatic leukemia
lymphatic system
lympho-
lympho-adenoma
lymphogenous leukemia
lymphogranuloma inguinale
lymphogranuloma venereum
lymphoid cell
lymphoid leukemia
lynch law
lynx cat
lynx flower
lynx-eyed
lyo-
lyra viol
lyrate-lobed
lyre buck
lyre bat
lyre pheasant
lyre snake
lyre tree
lyre turtle
lyre-form sofa
lyre-guitar
lyre-leaved
lyre-shaped
lyre-tailed
lyre-tailed nightjar
lyric bass
lyric cantata
lyric drama
lyric poet
lyric poetry
lyric soprano
lyric stage
lyric tenor
lyric theater
lyric-writing
lyrical abstraction
lyrical abstractionist
lyrico-dramatic
lyrico-epic
lys-
lysergic acid
lysergic acid diethylamide
lyso-
m b
m d
m-1
m-RNA
m-day
m-hum
m-ple point
mA
mAN
mC
machine rifle
machine ruler
machine screw
machine shop
machine stamper
machine steel
machine stitch
machine stitcher
machine stitching
machine tool
machine word
machine-breaking
machine-broken
machine-cut
machine-drilled
machine-driven
machine-finished
machine-forged
machine-gun
machine-gun fire
machine-gunned
machine-gunning
machine-hour
machine-knitted
machine-made
machine-mixed
machine-sewed
machine-stitch
machine-stitched
machine-switching office
machine-tooled
machine-woven
machine-wrought
machinery steel
machinist's hammer
machinist's mate
mackay bean
mackerel bait
mackerel bird
mackerel breeze
mackerel gull
mackerel shark
mackerel sky
mackinaw coat
macnab cypress
macr-
macrame cord
macrame knot
macro-
macro-axis
macrobiotic diet
macrocyclic anemia
macula lutea
mad about
mad apple
mad as a March hare
mad as a hatter
mad as a hornet
mad as a wet hen
mad dog
mad for
mad itch
mad money
mad on
mad round
mad staggers
mad with lust
mad-apple
mad-brained
mad-bred
mad-doctor
mad-dog skullcap
mad-headed
madder bleach
madder bloom
madder blue
madder brown
madder carmine
madder crimson
madder extract
madder lake
madder orange
madder pink
madder purple
madder red
madder rose
madder scarlet
madder violet
madder yellow
made dish
made eye
made flesh
made for
made mast
made of
made of iron
made of money
made out of
made out of whole cloth
made public
made rug
made sure
made to grovel
made to order
made up
made up of
made-beaver
made-over
made-to-measure
made-to-order
made-up
madia oil
madonna lily
madre-perl
madrepore glass
madrepore marble
madreporic body
madreporic plate
madreporic tubercle
mae west
maestro di cappella
mafura tallow
mag tape
magazine camera
magazine clothing
magazine publishing
magazine section
magazine writer
magellanic cloud
magen david
maggot in one's brain
maggot in the brain
maggot snipe
maggot therapy
maggot-pie
magic act
magic belt
magic bullets
magic carpet
magic circle
magic eye
magic formula
magic lantern
magic lily
magnetic compass
magnetic concentration
magnetic conductivity
magnetic constant
magnetic core
magnetic course
magnetic creeping
magnetic curves
magnetic declination
magnetic deviation
magnetic dip
magnetic dipole moment
magnetic disk
magnetic domain
magnetic drum
magnetic drum recorder
magnetic electricity
magnetic elements
magnetic equator
magnetic field
magnetic field of currents
magnetic figures
magnetic flux
magnetic flux density
magnetic force
magnetic friction
magnetic heading
magnetic hysteresis
magnetic inclination
magnetic induction
magnetic ink
magnetic intensity
magnetic lag
magnetic lens
magnetic memory
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic permeability
magnetic pickup
magnetic pole
magnetic potential
magnetic pulley
magnetic quantum number
magnetic recorder
magnetic recording
magnetic relay
magnetic reluctance
magnetic remanence
magnetic repulsion
magnetic resistance
magnetic retardation
magnetic retentiveness
magnetic rotation
magnetic scalar potential
magnetic storm
magnetic tape
magnetic tape recorder
magnetic tape unit
magnetic tube of force
magnetic variation
magnetic viscosity
magnetic wire
magnetic wire recorder
magnetico-
magnetite arc
magnetite arc lamp
magnetite-basalt
magnetite-olivinite
magnetite-spinellite
magnetizing current
magnetizing force
magneto assembler
magneto-
magneto-electric
magneto-electricity
magneto-optical effect
magnetocaloric effect
magnetoelectric generator
magnetoelectric machine
magnetomotive force
magnetostriction microphone
magnificent rifle bird
magnifying glass
magnifying power
magnolia warbler
magnum bonum
magnum opus
magnus hitch
magpie diver
magpie finch
magpie goose
mah jong
mah-jongg
mahala mat
mahaleb cherry
mahali disease
maharao raja
mahogany birch
mahogany brown
mahogany family
mahogany-brown
mahua butter
maid marian
maid of all work
maid of honor
maid of honour
maid-in-waiting
maiden cane
maiden lady
maiden name
maiden over
maiden pink
maiden speech
maiden state
maiden voyage
maiden's blush
maiden's-tears
maiden's-wreath
maiden's-wreaths
maidenhair fern
maidenhair spleenwort
maidenhair tree
maidenhair-tree
maidenhair-vine
maids-hair
maids-in-waiting
mail boat
mail car
mail carrier
mail catcher
mail coach
mail drop
mail flag
mail order
mail orderly
mail packet
mail phaeton
mail pouch
mail steamer
mail train
mail truck
mail van
mail-cheeked
mail-coach
mail-order buying
mail-order goods
mail-order house
mail-order selling
mailed fist
mailed fist, the
mailed-cheeked
mailing list
mailing machine
mailing tube
main body
main brace
main chance
main clause
main course
main current
main deck
main diagonal
main dish
main drag
main feature
main features
main force
main gaff-topsail
main gauche
main idea
main interest
main lift
main line
main office
main plane
main plant
main point
main road
main rocket
main royal
main sea
main sequence
main sequence star
main skysail
main staysail
main stem
main store
main street
main strength
main thing
main yard
main-brace
main-brace bumpkin
main-course
main-de-fer
main-deck
main-frame computer
main-guard
main-royal brace
main-royal lift
main-royal mast
main-royal stay
main-royal staysail
main-royal studding sail
main-royal yard
main-royal-studding-sail boom
main-sheet
main-skysail brace
main-skysail lift
main-skysail mast
main-skysail stay
main-skysail yard
main-top
main-topgallant
main-topgallant brace
main-topgallant lift
main-topgallant mast
main-topgallant sail
main-topgallant stay
main-topgallant studding sail
main-topgallant yard
main-topgallantmast
main-topmast
main-topmast stay
main-topmast staysail
main-topmast studding sail
main-topmast-studding-sail boom
main-topsail
main-topsail lift
main-topsail schooner
main-topsail yard
main-trysail gaff
main-trysail peak halyard
main-trysail rig
main-trysail vang
main-yard
main-yardman
mainstream jazz
maintain a household
maintain clearance
maintain connection
maintain continuity
maintain distance
maintain position
maintain the heading
maintain the highest standards
maintain with your last breath
maintain your perspective
maintained school
maintaining power
maintenance and cure
maintenance bond
maintenance man
maintenance of membership
maintenance of your good name
mais oui
maison de sante
maison-dieu
maître d’
maître d’hotel
maître de ballet
maître d’hôtel
maize mildew
maize oil
maize smut
maize yellow
maize-eater
majo bitters
majolica dipper
majolica painter
major agglutinins
major axis
major basilica
major chord
major element
major form class
major general
major in
major interval
major key
major league
major medical insurance
major mode
major operation
major operations
major order
major orders
major part
major party
major penalty
major piece
major planet
major poet
major premise
major premiss
major scale
major second
major seminary
major seventh chord
major suit
major surgery
major tenace
major term
major third
major triad
major-domo
major-domos
major-domoship
major-general
major-generalcy
major-generalship
major-league
major-leaguer
majority carrier
majority leader
majority rule
majuscule script
make a North River jibe
make a U-turn
make a bargain
make a bed
make a beeline
make a beginning
make a bequest
make a bet
make a bid
make a bid for
make a blind bargain
make a blooper
make a blunder
make a board
make a boast of
make a bold push
make a boner
make a boo-boo
make a break for
make a break for it
make a breakthrough
make a brolly-hop
make a burst of speed
make a buy
make a call
make a cash payment
make a cat's-paw of
make a cautious move
make a chattel of
make a circuit
make a clamor
make a clean breast
make a clean breast of
make a clean sweep
make a close study of
make a comeback
make a commotion
make a comparison
make a compromise
make a critical revision
make a cross-reference
make a dash
make a dash at
make a dash for
make a date
make a dead set against
make a dead set at
make a dead-stick landing
make a deal
make a deal for
make a decision
make a demand
make a dent in
make a determined resistance
make a detour
make a dicker
make a distinction
make a doormat of oneself
make a doormat of yourself
make a face
make a fair copy
make a false step
make a faux pas
make a federal case
make a federal case of
make a figure
make a fine distinction
make a flight
make a fool of
make a fool of yourself
make a fortune
make a fresh start
make a funny
make a fuss
make a fuss about
make a fuss over
make a generalization
make a getaway
make a go of it
make a good board
make a good end
make a good thing of
make a grab for
make a half board
make a hash of
make a hit
make a hit with
make a hog of yourself
make a hole in
make a household word of
make a journey
make a killing
make a landfall
make a laughingstock of
make a leg
make a light
make a lip
make a liquid sound
make a living
make a long face
make a long story short
make a low bow
make a lucky strike
make a man of
make a mark
make a match
make a memorandum
make a mess of
make a miscue
make a misstep
make a mistake
make a mockery of
make a monkey of
make a monkey of yourself
make a monkey out of
make a motion
make a moue
make a mouth
make a move
make a mow
make a new beginning
make a new man of
make a nice distinction
make a noise
make a noise in the world
make a nose dive
make a note
make a parachute jump
make a party to
make a pass
make a pass at
make a passage
make a patsy of
make a pawn of
make a peace offering
make a personal appearance
make a pig of yourself
make a pilgrimage
make a pinch
make a pitch for
make a play for
make a plaything of
make a plea
make a point of
make a practice of
make a precipitate departure
make a prediction
make a present of
make a pretense
make a pretense of
make a pretext of
make a production of
make a prognosis
make a projection
make a promise
make a proof
make a prophecy
make a puppet of
make a purchase
make a quick exit
make a racket
make a radical change
make a raid
make a rebuttal
make a recension
make a reconnaissance
make a regulation
make a report
make a request
make a requisition
make a resolute stand
make a resolution
make a reverence
make a round trip
make a row
make a run
make a run for
make a rush at
make a sacrifice
make a sale
make a scene
make a scoop
make a selection
make a set at
make a short sale
make a show
make a show of
make a sign
make a signal
make a slow start
make a sound
make a sounding
make a space
make a special effort
make a spectacle of yourself
make a speech
make a spinnaker run
make a splash
make a splurge
make a sport of
make a spurt
make a stab at
make a stand
make a stand against
make a statement
make a stir about
make a strategic withdrawal
make a strong bid for
make a study of
make a subtle distinction
make a success
make a sucker of
make a survey
make a syllabus
make a tentative move
make a thrust at
make a tilt at
make a to-do
make a to-do over
make a touch
make a train
make a trial of
make a trip
make a try
make a virtue of necessity
make a visit
make a whole
make a will
make a wrong step
make a wry face
make a wry face at
make a wry mouth
make accounts square
make acknowledgment
make acknowledgments of
make acquaintance with
make acquainted
make acute
make advances
make after
make agree
make all clear for
make all square
make allocations
make allowance
make allowance for
make allowances for
make amends
make an adaptation
make an adjustment
make an ado
make an ado about
make an allusion to
make an announcement
make an appearance
make an approximation
make an arrangement
make an arrest
make an ass of
make an ass of yourself
make an assignment
make an attempt
make an auspicious beginning
make an edition
make an effort
make an end of
make an entrance
make an entry
make an estimation
make an example of
make an exit
make an expedition
make an experiment
make an idol of
make an impact upon
make an impression
make an improvement
make an incursion
make an inroad
make an intrusion
make an investment
make an irruption into
make an obeisance
make an offer
make an opening
make an outcry
make an overture
make an uproar
make and break
make angry
make answer
make anxious
make apology for
make application
make arrangements
make arrangements for
make as if
make as though
make assignments
make assurance double sure
make at
make attentive
make available
make available to all
make away
make away with
make bad weather
make believe
make better
make bite the dust
make black
make blind
make blood flow freely
make blue
make bold
make bold to
make bold to ask
make bold with
make bones about
make bones of
make book
make both ends meet
make bricks without straw
make businesslike
make capital of
make capital out of
make ceramics
make certain
make choice of
make clear
make cold
make comfortable
make common cause
make common cause with
make compensation
make complex
make concave
make concessions
make conditional
make confession
make conform
make connection
make contact with
make contingent
make conversation
make court to
make delivery
make dependent
make dispositions for
make dissimilar
make distinctions
make do
make do with
make doubt
make drunk
make ducks and drakes of
make due provision for
make dutiable
make economies
make elastic
make electric
make ends meet
make every effort
make expiation
make explosive noise
make eyes at
make fair promise
make fair weather
make false pretenses
make fast
make for
make for health
make foul water
make four
make free
make free of
make free with
make friends with
make fun
make fun of
make game of
make go
make goo-goo eyes at
make good
make good time
make good use of
make good weather
make good your escape
make good your promise
make good your word
make grandiloquent
make graphics
make grieve
make grow
make happy
make haste
make haste slowly
make hay
make hay of
make hay while the sun shines
make head
make head against
make headway
make heavy weather
make heavy weather of it
make her number
make holiday
make hopeless
make hot
make hot under the collar
make human
make ill-humored
make immortal verse
make imperative
make impossible
make incumbent
make innovations
make inquiry
make inquisition
make it
make it a condition
make it clear
make it felt
make it hot for
make it quick
make it snappy
make it so
make it tough for
make it up
make it up to
make it with
make it your business
make its appearance
make justice prevail
make knots
make known
make land
make larger
make late
make laws
make leeway
make legal
make legal and binding
make legendary
make lie down and roll over
make lie down and turn over
make light
make light of
make lighter
make like
make likely
make liquor
make little of
make love
make mad
make magnetic
make mandatory
make matters up
make mention of
make merry
make merry with
make mincemeat of
make money
make money by
make more acute
make more likely
make more than one
make more than you
make mountains out of molehills
make much ado about
make much ado about nothing
make much of
make music
make nervous
make no bones about
make no bones about it
make no doubt
make no mistake
make no provision
make no scruple of
make no sign
make nothing of
make obeisance
make obligatory
make of
make off
make off with
make one
make one easy
make one tremble
make one's blood run cold
make one's flesh creep
make one's hair stand on end
make one's teeth chatter
make oneself heard
make out
make out a case
make out a report
make out like
make out with
make over
make overtures
make parallel
make parts
make pay through the nose
make peace
make perfect
make place
make plain
make plates
make pleasant
make pliant
make plumb
make port
make possible
make precise
make preparations
make prints
make probable
make profit
make progress
make progress against
make propitiation
make proud
make provision for
make public
make purple
make putty of
make quits
make rapid strides
make ready
make red
make redundant
make reference to
make reparation
make reprisal
make requisition
make requital
make reservations
make restitution
make retribution
make right
make right prevail
make room
make round
make sacrifice to
make sad
make sad work of
make safe
make sail
make sea room
make secure
make semitransparent
make sense
make sensitive
make shift
make short work of
make sit up and beg
make small
make smell like roses
make so bold as to
make soft
make someone see stars
make sore
make space
make special
make staccato sounds
make sternway
make strides
make suit to
make supplication
make sure
make sure against
make sure of
make talk
make terms
make the air blue
make the best of
make the best of a bad bargain
make the best of it
make the best of your time
make the best of your way
make the butt of your humor
make the chips fly
make the dust fly
make the eagle scream
make the eyes water
make the flesh crawl
make the flesh creep
make the fur fly
make the grade
make the mind a blank
make the most of
make the most of it
make the most of your time
make the mouth water
make the round of
make the rules
make the scene
make the sign of the cross
make the sign of the cross over
make the sign of the cross upon
make the sparks fly
make the supreme sacrifice
make the welkin ring
make the worst of
make things hum
make threads
make time
make time stand still
make tired
make too much of
make tough
make toward
make toxic
make tracks
make tributary
make trouble
make uncertain
make unfeeling
make uniform
make unintelligible
make unique
make up
make up accounts
make up for
make up for lost time
make up leeway
make up to
make up your mind
make use of
make vertical
make viscid
make void
make war
make war on
make water
make waves
make way
make way for
make way into
make welcome
make whoopee
make with
make worse
make you a
make you a compliment
make you fed-up
make you feel at home
make you feel welcome
make you jump out of his skin
make you puke
make you retch
make you say 'uncle'
make you see
make you see double
make you shit your pants
make you shudder
make you sick
make you sick in the stomach
make you sick to the stomach
make you sing small
make you sit up and take notice
make you stare
make you tiddly
make you tired
make you tremble
make you vomit
make you sick
make your adieus
make your appearance
make your bed
make your bed and lie on it
make your blood boil
make your blood run
make your blood run cold
make your bow
make your business
make your case
make your cause your own
make your choice
make your compliments to
make your debut
make your escape
make your exit
make your field
make your flesh creep
make your fortune
make your hair stand on end
make your head reel
make your head revolve
make your head spin
make your head swim
make your head whirl
make your heart bleed
make your home
make your keep
make your mark
make your mouth water
make your move
make your nerves tingle
make your oath
make your own
make your own way
make your peace
make your pile
make your point
make your rounds
make your salutations
make your skin crawl
make your teeth chatter
make your voice heard
make your way
make your way to
make yourself acquainted with
make yourself at home
make yourself comfortable
make yourself conspicuous
make yourself easy about
make yourself easy on that score
make yourself felt
make yourself heard
make yourself master of
make yourself part of
make yourself scarce
make yourself understood
make-
make-ado
make-belief
make-believe
make-do
make-faith
make-falcon
make-fire
make-fray
make-game
make-hawk
make-king
make-law
make-mirth
make-or-break
make-out artist
make-peace
make-ready
make-shame
make-sport
make-talk
make-up
make-way
make-weight
make-work
maker's mark
maker-off
maker-up
makes of
makes you shiver
makeup artist
makeup man
making a clean breast
making a leg
making a part of
making again
making amends
making an end
making blind
making certain
making distinctions
making do
making foolish
making good
making iron
making it with
making light
making no bones about it
making once more
making over
making ready
making right
making scenes
making soft
making up
making way
making yourself scarce
making-up
making-up day
making-up price
mako shark
mal a propos
mal de mer
mal de pinto
mal du pays
mal-
mal-entendu
mal-observation
mala fide
mala fides
malac-
malacca cane
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
mal alto
male animal
male bamboo
male being
male cat
male chauvinism
male chauvinist
male chauvinist pig
male fern
male gamete
male line
male organs
male person
male rhyme
male servant
male sex
male turkey
male-
male-sterile
maleic acid
maleic hydrazide
malevolent influence
malgre soi
malic acid
malice aforethought
malice prepense
malicious defamation
malicious gossip
malicious mischief
malicious parody
malignant catarrh
malignant catarrhal fever
malignant granuloma
malignant growth
malignant hypertension
malignant lymphoma
malignant pustule
malignant tumor
malleable cast iron
malleable iron
mallee bird
mallee fowl
mallee root
malleh bug
mallow family
mallow pink
mallow rose
mallow rust
mallow tree
malm rock
malonic acid
malonic ester
malonyl group
malonyl radical
maloo climber
malpighian layer
malpighian tube
malpractice insurance
malt extract
malt house
malt liquor
malt sugar
malt vinegar
malt whiskey
malt whisky
malt-dust
malt-horse
malt-house
malt-worm
malta fever
malted milk
maltese cat
maltese cross
malum in se
mama's boy
mamma's boy
mammary gland
mammato-cumulus
mammee apple
mammee colorado
mammee sapota
mammoth tree
mammy coot
mammy wagon
mamori katana
man Friday
man about town
man after your own heart
man alive
man and boy
man and wife
man and woman
man ape
man engine
man fish
man friday
man from Mars
man fungus
man higher up
man hunt
man hunter
man in the moon
man in the street
man jack
man lock
man midwife
man mountain
man of God
man of action
man of all work
man of commerce
man of courage
man of deeds
man of experience
man of few words
man of genius
man of good will
man of his word
man of honor
man of influence
man of intellect
man of iron
man of learning
man of letters
man of mark
man of means
man of men
man of mettle
man of note
man of old
man of parts
man of property
man of science
man of straw
man of substance
man of taste
man of the cloth
man of the house
man of the people
man of the world
man of wealth
man of wisdom
man on the flying trapeze
man on the make
man overboard
man power
man the garrison
man tiger
man with hair on his chest
man without a country
man's best friend
man's estate
man-abhorring
man-about-town
man-at-arms
man-back
man-bearing
man-begot
man-bodied
man-born
man-brute
man-carrying
man-catching
man-centered
man-changed
man-child
man-compelling
man-created
man-day
man-days
man-degrading
man-destroying
man-devised
man-devouring
man-eater
man-eating
man-eating shark
man-enchanted
man-enslaved
man-fashion
man-fearing
man-for-man defense
man-forked
man-god
man-grown
man-handle
man-hater
man-hating
man-headed
man-high
man-hole
man-hour
man-hunter
man-keen
man-killer
man-killing
man-made
man-maiming
man-making
man-midwife
man-midwifery
man-milliner
man-mimicking
man-minded
man-minute
man-o'-war
man-o'-war bird
man-of-the-earth
man-of-war
man-of-war bird
man-of-war fish
man-of-war's man
man-orchis
man-pleasing
man-record chart
man-ridden
man-servant
man-shaped
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
manganese bronze
manganese brown
manganese dioxide
manganese epidote
manganese heptoxide
manganese oxide
manganese sesquioxide
manganese spar
manganese steel
manganese sulfate
manganese tetroxide
manganese velvet brown
manganese violet
manganic acid
manganous sulfate
mange mite
mange-mange
mangel-wurzel
manger board
manger son ble en herbe
mangle operator
mangle rack
mangle wheel
mango anthracnose
mango bird
mango fish
mango ginger
mango melon
mango-squash
mangold fly
mangold-wurzel
mangrove catechu
mangrove cuckoo
mangrove family
mangrove mullet
mangrove skipper
mangrove snapper
mangum terrace
manhood suffrage
mania a potu
maniacal excitement
manic condition
manic state
manic-depressive
manic-depressive psychosis
manicoba rubber
maniere criblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
manipulate the market
manipulated market
manipulated variable
manipulative surgery
manlike types
manly art of self-defense
manly vigor
mann tree
mann-
manna ash
manna from heaven
manna grass
manna gum
manna in the wilderness
manna insect
manna lichen
manna sugar
manna-croup
manned rocket
manned station
manner of articulation
manner of being composed
manner of speaking
manner of working
manners of cooking
mannish bob
mannish female
mannish wavy shingle
mannitol hexanitrate
manometer pressure
manor farm
manor house
manor manege
manor-house
manrope knot
mansard roof
mansion house
mansion-house
mansions in the sky
manstopping bullet
manta ray
mantel shelf
mantel-tree
mantis crab
mantis shrimp
mantle cavity
mantle of snow
mantle rock
mantle yourself with
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manual labor
manual of instruction
manual training
manubial column
manufactured gas
manufacturer's agent
manufacturing center
manufacturing lathe
manufacturing plant
manufacturing quarter
manufacturing town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
mantled in darkness
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manual labor
manual of instruction
manual training
manubial column
manufactured gas
manufacturer's agent
manufacturing center
manufacturing lathe
manufacturing plant
manufacturing quarter
manufacturing town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
mantled in darkness
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manual labor
manual of instruction
manual training
manubial column
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manufacturer's agent
manufacturing center
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manufacturing plant
manufacturing quarter
manufacturing town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
many-armed
many-banded
many-beaming
many-belied
many-bleating
many-blossomed
many-blossoming
many-branching
many-breasted
many-celled
many-chambered
many-cobwebbed
many-colored
many-coltered
many-cornered
many-eared
many-eyed
many-faced
many-facedness
many-faceted
many-flowered
many-folded
many-formed
many-fountained
many-gifted
many-handed
many-headed
many-headed multitude
many-headedness
many-horned
many-hued
many-jointed
many-knotted
many-languaged
many-lay
many-leaved
many-legged
many-lived
many-lobed
many-meaning
many-millioned
many-minded
many-mingled
many-mingling
many-mouthed
many-named
many-nationed
many-nerved
many-one
many-parted
many-peopled
many-petaled
many-pigeonholed
many-pillared
many-pointed
many-ranked
many-rayed
many-ribbed
many-rooted
many-rowed
many-seated
many-seatedness
many-seeded
many-sided
many-sidedness
many-sounding
many-spangled
many-spotted
many-steepled
many-stemmed
many-storied
many-stringed
many-syllabled
many-tailed
many-tinted
many-toned
many-tongued
many-towered
many-tribed
many-tubed
many-twinkling
many-valued
many-valued logic
many-valved
many-veined
many-voiced
many-wandering
many-weathered
many-winding
many-windowed
many-wintered
many-yeared
map lichen
map maker
map making
map out
map projection
map reader
map reading
map turtle
maple ash
maple borer
maple eye
maple family
maple scale
maple sirup
maple sugar
maple syrup
maple syrup urine disease
maple worm
maple-faced
maple-leaved
mar-
mar-hawk
marabou stork
maraging steel
marang nut
maraschino cherries
maraschino cherry
marathon race
marble cake
marble cork
marble flower
marble thrush
marble-arched
marble-breasted
marble-calm
marble-checkered
marble-colored
marble-constant
marble-covered
marble-faced
marble-grinding
marble-hard
marble-imaged
marble-looking
marble-minded
marble-mindedness
marble-pale
marble-paved
marble-piled
marble-pillared
marble-polishing
marble-quarrying
marble-ribbed
marble-sculptured
marble-topped
marble-white
marbled paper
marc de Burgogne
marcel wave
march against
march away
march in double-quick time
march in quick time
march of events
march of time
march off
march on
march out
march out of step
march past
march stone
march tempo
march under the banner of
march up to the cannon’s mouth
march upon
march with
march-land
march-man
march-past
marche aux puces
marching orders
marchioness-ship
marconi rig
mardi gras
mare clausum
mare liberum
mare nostrum
mare's nest
mare's tail
mare's-nest
mare's-tail
mare-robe
marechal niel
mares of Diomedes
margaric acid
margate fish
margin draft
margin line
margin of lift
margin of power
margin purchaser
margin up
marginal affair
marginal land
marginal man
marginal matter
marginal note
marginal sea
marginal utility
margined securities
maria theresa dollar
mariage de convenance
marigold finch
marigold window
marigold yellow
marijuana cigarette
marijuana smoker
marine animal
marine animals
marine barometer
marine belt
marine biology
marine blue
marine chronometer
marine corps
marine engine
marine engineer
marine engineering
marine glue
marine green
marine insurance
marine ivy
marine league
marine painter
marine painting
marine railway
marine shell
marine soap
marine store
marine superintendent
marine travel
marine-finish
mariner's chart
mariner's compass
mariposa lily
marital affinity
marital faithfulness
marital fidelity
marital relations
maritime belt
maritime law
maritime reconnaissance plane
marjoram oil
mark boundaries
mark degree
mark down
mark lodge
mark of Cain
mark of office
mark of signature
mark off
mark out
mark out a course
mark out for
mark paid
mark the interface
mark the periphery
mark the time
mark time
mark tooth
mark up
mark with a red letter
mark-on
mark-up
marked down
marked resemblance
marked with the crow's foot
marker beacon
marker buoy
marker-down
marker-off
marker-out
markers-off
market analysis
market analyst
market bleach
market boat
market crab
market cross
market expansion
market garden
market gardener
market gardening
market hunter
market index
market keeper
marriage broker
marriage ceremony
marriage chest
marriage connection
marriage contract
marriage counselor
marriage deities
marriage encounter
marriage flight
marriage god
marriage goddess
marriage guidance
marriage license
marriage of convenience
marriage portion
marriage proposal
marriage relationship
marriage sacrament
marriage settlement
marriage song
marriage vow
marriage-bed
married couple
married love
married man
married name
married print
married state
married status
married woman
marron glace
marrons glac
marrow bean
marrow cabbage
marrow pea
marrow squash
marry into
marry off
marsh andromeda
marsh bent
marsh blackbird
marsh bluebill
marsh buck
marsh cress
marsh crocodile
marsh deer
marsh elder
marsh fern
marsh fever
marsh five-finger
marsh foxtail
marsh gas
marsh grass
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marsh parsley
marsh pea
marsh peep
marsh pennywort
marsh pine
marsh pink
marsh plover
marsh purslane
marsh quail
marsh rabbit
marsh robin
marsh rosemary
marsh samphire
marsh shield fern
marsh speedwell
marsh spike grass
marsh spot
marsh stitchwort
marsh tea
marsh tern
marsh tit
marsh titmouse
marsh treater
marsh trefoil
marsh turnip
marsh vetchling
marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal's baton
marshalling yard
marsupial mole
marsupial mouse
martello tower
martial arts
martial law
martial music
martial spirit
martin snipe
martingale backrope
martingale boom
marumi kumquat
marvel-of-Peru
mary jane
mary magdalene
mascarene grass
mascot blue
masculine caesura
masculine ending
masculine rhyme
masculo-
mash machine
mash note
mash tun
mash up
mash weld
mashie iron
mashie niblick
mask microphone
mask of death
mask stop
masked ball
masking piece
masking tape
mason bee
mason jar
mason moth
mason spider
mason wasp
mason's line
mason's lung
mason-dixon line
masquerade as
masquerade ball
masquerade party
mass action
mass attack
mass card
mass defect
mass destruction
mass energy
mass in
mass leave
mass man
mass market
mass media
mass meeting
mass movement
mass murder
mass noun
mass number
mass observation
mass observer
mass of the presanctified
mass production
mass ratio
mass reflex
mass spectrograph
mass spectrography
mass spectrometer
mass spectrometry
mass spectroscope
mass spectroscopy
mass spectrum
mass suicide
mass unit
mass-book
mass-energy
mass-energy equation
mass-fiber
mass-house
mass-luminosity law
mass-minded
mass-mindedness
mass-monger
mass-penny
mass-priest
mass-produce
mass-produced
mass-word
masses of
massor mass
massy-proof
mast ball
mast band
mast brown
mast cell
mast clamp
mast cloth
mast cover
mast funnel
mast hasp
mast hoop
mast house
mast lining
mast partner
mast ring
mast track
mast tree
mast
mast-fed
mast-head
master alloy
master bedroom
master builder
master carpenter
master chief petty officer
master chord
master clock
master compass
master control desk
master controller
master craftsman
master cylinder
master film
master gauge
master gunner
master hand
master key
master leaf
master map
master mariner
master mason
master matrix
master mechanic
master of
master of ceremonies
master of foxhounds
master of style
master of the house
master of the revels
master of the rolls
master of the situation
master plan
master race
master rod
master screw
master sergeant
master shifter
master spirit
master spirit of the age
master spring
master stroke
master switch
master tap
master touch
master wheel
master workman
master your feelings
master yourself
master's degree
master's degree candidate
master's gown
master's oral
master-at-arms
master-builder
master-hand
master-key
master-mason
master-singer
master-slave manipulator
master-stroke
master-vein
master-work
masters-at-arms
mastery of skills
masthead angle
masthead compass
mastic tree
mastiff bat
masting house
masto-
mastodon locomotive
mastoid cell
mastoid process
mat bean
mat burn
mat cane
mat finish
mat of hair
mat rush
mat-covered
mat-forming
mat-ridden
mat-roofed
mata-mata
material means
material part
material point
material resources
material thing
material things
material wealth
material world
materials handling
maternal ancestor
maternal love
maternity benefit
maternity hospital
maternity insurance
maternity ward
mathematical elements
mathematical expectation
mathematical induction
mathematical linguistics
mathematical logic
mathematical notation
mathematical physicist
mathematical physics
mathematical point
mathematical precision
mathematical probability
mathematically exact
mathematically probable
mathematically-logical
mathematically-physical
matilija poppy
matin song
matinee idol
matinee race
matinee racing
mating call
mating cry
mator mate
matr-
matre d'h tel
matre d'h tel butter
matr-
matricaria camphor
matrimonial agency
matrimonial agent
matrimonial bureau
matrimonial union
meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
meadow chicken
meadow chickweed
meadow clover
meadow crake
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
meadow fescue
meadow foxtail
meadow gowan
meadow grass
meadow grasshopper
meadow green
meadow hen
meadow land
meadow lark
meadow lily
meadow moor
meadow mouse
meadow mushroom
meadow mussel
meadow nematode
meadow nuts
meadow nymph
meadow orchis
meadow ore
meadow parsnip
meadow pea
meadow peat
meadow pine
meadow pink
meadow pipit
meadow queen
meadow reed grass
meadow rice grass
meadow rue
meadow saffron
meadow sage
meadow salsify
meadow saxifrage
meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
meadow vole
meadow-beauty family
meadow-brown
meadow-sweet
meadows and pastures
meager diet
meaking iron
meal beetle
meal moth
meal offering
meal pennant
meal plum
meal snout moth
meal ticket
meal worm
mealie meal
mealy bellwort
mealy bug
mealy-back
mealy-mouthed
mealy-mouthedness
mean anomaly
mean business
mean calorie
mean deviation
mean deviation from the mean
mean distance
mean free path
mean latitude
mean life
mean line
mean mind
mean much
mean noon
mean nothing
mean planet
mean sea level
mean semitone
mean solar day
mean solar time
mean square
mean square deviation
mean sun
mean time
mean to
mean to imply
mean to say
mean to suggest
mean value
mean value theorem
mean well
mean what you say
mean while
mean wretch
mean-acting
mean-conditioned
mean-dressed
mean-looking
mean-minded
mean-souled
mean-spirited
mean-spiritedly
mean-spiritedness
mean-square error
mean-time clock
mean-tone tuning
mean-witted
meander belt
meander line
meandering stream
means of access
means of carrying
means of conveyance
means of dealing
means of production
means of transporting
means test
means to an end
meantone system
measles vaccine
measure against
measure depth
measure for measure
measure line
measure of my days
mechanic's lien
mechanical advantage
mechanical aid
mechanical aptitude
mechanical arts
mechanical binding
mechanical bird
mechanical device
mechanical drawing
mechanical engineer
mechanical engineering
mechanical equivalent of heat
mechanical heart
mechanical impedance
mechanical instrument
mechanical man
mechanical means
mechanical metallurgy
mechanical piano
mechanical refrigeration
mechanical suspension
mechanical telephone
mechanical tissue
mechanical twin
mechanical vector
mechanical wave
mechanically precise
mechanico-
mechanized warfare
medaddy-bush
medal bronze
medal chief
medal for merit
medal of freedom
medal of honor
medal play
medal winner
meddle with
meden agan
medi-
media campaign
medial condyle
median strip
median strip
mediastino-pericardial
mediastino-pericarditis
mediastinum testis
mediated generalization
medical Greek
medical aid
medical and surgical instruments
medical attendant
medical attention
medical care
medical center
medical certificate
medical corps
medical diagnosis
medical diathermy
medical dressing
medical ethics
medical examination
medical examiner
medical history
medical instrument
medical jurisprudence
medical jury
medical man
medical practice
medical practitioner
medical prognosis
medical school
medical treatment
medicinal herbs
medicinal leech
medicinal oil
medicine animal
medicine bag
medicine ball
medicine case
medicine chest
medicine dance
medicine dropper
medicine glass
medicine lodge
medicine man
medicine monger
medicine shop
medicine show
medicine tree
medicine wolf
medico-
medico-legal medicine
medieval latin
medieval literature
medieval mode
medio-
medio-passive
meditate over
meditate upon
mediterranean flour moth
mediterranean fruit fly
medium artillery
medium bomber
medium frequency
medium of exchange
medium of transportation
medium quarto
medium shot
medium wave
medium-dated
medium-rare
medium-sized
medley cloth
medley of colors
medley race
medley relay
medulla oblongata
medulla oblongatas
medullae oblongatae
medullary ray
medullary sheath
medusa bud
medusa's head
meed of praise
meek soul
meek-browed
meek-eyed
meek-eyed Morn
meek-minded
meek-spirited
meerschaum enameler
meet a bet
meet adversity
meet an obligation
meet and right
meet around the conference table
meet boldly
meet eyeball to eyeball
meet face to face
meet halfway
meet hand-to-hand
meet head-on
meet her
meet one's end
meet requirements
meet squarely
meet the expense of
meet the eye
meet the gaze
meet up with
meet with
meet with a loss
meet with approval
meet with attention
meet with foul play
meet with success
meet you at every turn
meet your Maker
meet your Waterloo
meet your commitments
meet your death
meet your fate
meet your obligations
meet your wishes
meeting house
meeting of minds
meeting place
meeting rail
meeting-house
meeting-place
meetone's end
meetyour end
mega-
megal-
megalithic tomb
megalo-
megaloblastic anaemia
megavolt-ampere
megawatt-hour
mein Herr
meiwa kumquat
melamine resin
melan-
melancholia attonita
melancholia hypochondriaca
melancholia religiosa
melano-
melanocyte-stimulating hormone
melba toast
melegueta pepper
melic grass
melic poetry
melilite-basalt
mell-doll
mell-supper
mellow wisdom
mellow-breathing
mellow-colored
mellow-deep
mellow-eyed
mellow-flavored
mellow-lighted
mellow-looking
mellow-mouthed
mellow-ripe
mellow-tasted
mellow-tempered
mellow-toned
melodic interval
melodic line
melodic minor
melodic minor scale
melody part
melon aphid
melon apple
melon beetle
melon cactus
melon caterpillar
melon fly
melon foot
melon loco
melon louse
melon moth
melon pear
melon seed
melon shell
melon shrub
melon thistle
melon tree
melon worm
melon-bulb
melon-faced
melon-formed
melon-laden
melon-leaved
melon-shaped
melon-yellow
melt away
melt down
melt in tears
melt in the air
melt into
melt into one
melt like snow
melt the heart
melting mood
melting point
melting pot
melton cloth
mem-sahib
member bank
member in good standing
member of the bar
member of the human race
member of the intelligentsia
members in Christ
members of the bar
membrana propria
membrana serosa
membrana tympana
membrane bone
membraneous labyrinth
membranous labyrinth
memento mori
memo book
memorandum book
memorandum head
memoria in aeterna
memoria technica
memorial arch
memorial column
memorial day
memorial park
memorial record
memorial rose
memorial statue
memorial stone
memorial tablet
memory bank
memory book
memory circuit
memory gap
memory like a sieve
memory obstruction
memory root
memory span
memory trace
memory training
memory tubes
memory verse
memory-trace
men's chorus
men's clothing
men's lounge
men's magazine
men's room
men's wear
men's-wear shop
men-
men-at-arms
men-children
men-folk
men-of-the-earth
men-of-war
menace to health
menage a trois
menage man
mend sail
mend the furl
mend your fences
mend your manners
mend your ways
mendel's law
mendicant friar
mendicant order
mendoza beaver
menhaden boat
menhaden oil
mensing-
mening-
meningo-
meningo-osteophlebitis
meno mosso
meno-
menopausal arthritis
mens rea
mens sana in corpore sano
menstrual discharge
menstrual epact
menstrual epilepsy
menstrual equation
menstrual flow
menstrual flux
mensural music
mensural notation
mental acquisitiveness
mental act
mental age
mental alertness
mental alienation
mental association
mental attitude
mental balance
mental blankness
mental blindness
mental block
mental body
mental capacity
mental case
mental chemistry
mental climate
mental composure
mental confusion
mental cruelty
mental cultivation
mental culture
mental defectiveness
mental deficiency
mental derangement
mental disease
mental disorder
mental dissociation
mental distress
mental disturbance
mental effort
mental equilibrium
mental exercise
mental faculty
mental fatigue
mental genius
mental giant
mental grasp
mental handicap
mental healer
mental healing
mental health
mental home
mental hospital
mental hygiene
mental illness
mental image
mental impression
mental instability
mental institution
mental labor
mental linking
mental object
mental outlook
mental philosophy
mental picture
mental poise
mental presentation
mental process
mental prominence
mental ratio
mental representation
mental reservation
mental retardation
mental set
mental shock
mental sickness
mental strain
mental subnormality
mental symptom
mental telepathist
mental telepathy
mental test
mental topography
mental void
mental weakness
mentally blind
mentally defective
mentally defective personality
mentally deficient
mentally handicapped
mentally ill
mentally retarded
mentally sick
mentally sound
menteur a triple etage
menthane group
mention confidentially
mention in passing
mention privately
mention to
mentioned in dispatches
mento-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercapto-
mercator projection
merchant adventurer
merchant bank
merchant banker
merchant flag
merchant fleet
merchant guild
merchant marine
merchant navy
merchant prince
merchant ship
merchant venturer
merchant-adventurer
merchant-tailor
merchant-venturer
merci beaucoup
mercur-
mercurial barometer
mercurial mind
mercurial ointment
mercurial telescope
mercuric chloride
mercuric oxide
mercuric subsulfate
mercuric sulfide
mercuric sulphide
mercurous chloride
mercury arc
mercury barometer
mercury bath
mercury bichloride
mercury boiler
mercury cell
mercury chloride
mercury cyanide
mercury dichloride
mercury fulminate
mercury iodide
mercury lamp
mercury mass
mercury oxide
mercury perchloride
mercury poisoning
mercury subchloride
mercury sulfide
mercury sulphide
mercury switch
mercury thiocyanate
mercury weed
mercury-arc lamp
mercury-arc rectifier
mercury-discharge lamp
mercury-vapor detector
mercury-vapor lamp
mercury-vapor tube
mercury-vapor turbine
mercury-vapour lamp
mercy flight
mercy killer
mercy killing
mercy seat
mercy stroke
mercy-seat
mere caricature
mere chance
mere child
mere child's play
mere counterfeit
mere existence
mere externals
mere facade
mere farce
mere few
mere hint
mere noise
mere nothing
mere notion
mere rhetoric
mere scratch
mere shadow
mere show
mere skin and bones
mere subsistence
mere talk
mere theory
mere things
mere tropism
mere wreck
merely exist
merely glimpsed
merely nominal
merely surface
merge in
merge into
meridian angle
meridian circle
meridian of life
meridian section
merit badge
merit rate
merit system
merit-monger
mermaid weed
mermaid's purse
mero cabrilla
mero-
merocrine gland
meromorphic function
merry as a cricket
merry as a grig
merry chase
merry dancers
merry man
merry men
merry-andrew
merry-andrewism
merry-andrewize
merry-eyed
merry-faced
merry-go-round
merry-hearted
merry-make
merry-making
merry-meeting
merry-minded
merry-singing
merry-smiling
merry-totter
mes-
mescal bean
mescal button
mescal buttons
mescal maguey
mesh bag
mesh connection
mesh knot
metal age
metal breaker
metal carbonyl
metal casting
metal cloth
metal coloring
metal cut
metal detector
metal foil
metal fouling
metal lath
metal lather
metal leaf
metal paste-up
metal sculpture
metal spraying
metal wood
metal-bearing
metal-bending
metal-boring
metal-bound
metal-broaching
metal-bushed
metal-clad
metal-clasped
metal-cleaning
metal-coated
metal-covered
metal-cutting
metal-decorated
metal-drilling
metal-drying
metal-edged
metal-embossed
metal-forged
metal-framed
metal-free phthalocyanine
metal-grinding
metal-jacketed
metal-lined
metal-lithography
metal-melting
metal-perforating
metal-piercing
metal-shaping
metal-sheathed
metal-slitting
metal-slotting
meter relay
meter-ampere
meter-candle
meter-candle-second
meter-kilogram
meter-kilogram-second
meter-millimeter
meter-reading
metered mail
metes and bounds
meth-
methacrylate resin
methacrylic acid
methamphetamine hydrochloride
methane series
methanol alcohol
methodical signs
methoxy DDT
methoxy group
methoxy radical
methyl acetate
methyl alcohol
methyl aldehyde
methyl benzene
methyl blue
methyl bromide
methyl cellulose
methyl chloride
methyl chlorocarbonate
methyl chloroformate
methyl cyanide
methyl ester
methyl ether
methyl ethyl ketone
methyl green
methyl group
methyl isobutyl ketone
methyl methacrylate
methyl methane
methyl oleate
methyl orange
methyl phenol
methyl phenyl ether
methyl propyl ketone
methyl radical
methyl red
methyl rubber
methyl salicylate
methyl styryl ketone
methyl sulfate
methyl violet
methyl yellow
methylacetic acid
methylated spirit
methylated spirits
methylene azure
methylene blue
methylene chloride
methylene dichloride
methylene group
methylene iodide
methylene radical
methylidyne group
methylidyne radical
methylisobutenyl ketone
methylphenylcarbinyl acetate
methylrosaniline chloride
methythionine chloride
methylnitro
meticulous attention
meting out
metopon hydrochloride
metr-
metre-candle
metre-kilogram-second
metric carat
metric centner
metric grain
metric hundredweight
metric space
metric system
metric ton
metric topology
metrical accent
metrical foot
metrical form
metrical group
metrical pattern
metrical psalm
metrical unit
metro-
metronome mark
metronomic mark
metropolitan area
metropolitan county
metropolitan district
meum et tuum
mew gull
mew up
mewling infant
mexican hairless
mexican spanish
mezankorrie moth
mezereon family
mezza voce
mezzamine floor
mezzanine floor
mezzanine story
mezzo forte
mezzo piano
mezzo staccato
mezzo-mezzo
mezzo-relievo
mezzo-relieves
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mi-
mia mia
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mickle-mouthed
michaelmas daisy
micr-
mi-
micro biology
micro-
mi-
micro-aerophile
micro-aerophilic
micro-audiphone
micro-form
micro-instrumentation
micro-movie
micro-needle
micro-stress
microcosmic salt
microcytic anemia
mid-chest
mid-continent
mid-course
mid-court
mid-crowd
mid-current
mid-diastolic
mid-dish
mid-distance
mid-earth
mid-eighteenth
mid-feather
mid-field
mid-flight
mid-forty
mid-front
mid-gray
mid-gut
mid-heaven
mid-hour
mid-ice
mid-incisor
mid-kidney
mid-lake
mid-length
mid-lent
mid-life
mid-line
mid-link
mid-lobe
mid-mixed
mid-mouth
mid-movement
mid-nineteenth
mid-ocean
mid-oestral
mid-off
mid-on
mid-orbital
mid-part
mid-period
mid-periphery
mid-pillar
mid-point
mid-position
mid-refrain
mid-region
mid-river
mid-road
mid-sea
mid-season
mid-side
mid-sky
mid-slope
mid-sole
mid-span
mid-stride
mid-styled
mid-sun
mid-swing
mid-tarsal
mid-term
mid-thigh
mid-thoracic
mid-tide
mid-time
mid-totality
mid-tow
mid-town
mid-travel
mid-value
mid-ventral
mid-volley
mid-walk
mid-wall
mid-wall column
mid-water
mid-week
mid-wicket
mid-workings
mid-world
mid-zone
midair collision
midas fly
midday flower
midday sun
midden mavis
middle C
middle Paleolithic
middle age
middle ages
middle body
middle buster
middle c
middle class
middle common room
mighty in battle
mighty like
mighty-brained
mighty-handed
mighty-minded
mighty-mouthed
mighty-spirited
mignonette family
mignonette green
mignonette lace
mignonette-vine
migrant laborer
migrant shrike
migrant worker
migration of ions
migration velocity
migratory bird
migratory laborer
migratory locust
migratory worker
mikado brown
mikado locomotive
mikado orange
mikado yellow
mike fright
mil-foot
mila a landi
milch cow
milch glass
milch-cow
mild alkali
mild as milk
mild as milk and water
mild as mother's milk
mild blushing goddess
mild mercurous chloride
mild mosaic
mild process
mild radical
mild silver protein
mild steel
mild-aired
mild-aspected
mild-blowing
mild-brewed
mild-cured
mild-eyed
mild-faced
mild-flavored
mild-looking
mild-mannered
mild-mooned
mild-savored
mild-scented
mild-seeming
mild-spirited
mild-spoken
mild-tempered
mild-tongued
mild-worded
mildew-proof
mildly radical
mile-ohm
mile-pound
mile-ton
mileage book
mileage ticket
miles glorious
miles per hour
military fever
military tuberculosis
military academy
military aircraft
military attache
military band
military camp
military campaign
military chaplain
military cloak
military court
military dictatorship
military engineer
military engineering
military establishment
military flight
military government
military governor
military honours
military insignia
military intelligence
military judge
military law
military man
military march
military mast
military medal
milk-yielding
milking machine
milking stool
milkweed butterfly
milkweed family
milkweed tortoise beetle
milkwort family
milky disease
milky way
milky way galaxy
mill agent
mill around
mill beetle
mill bill
mill cake
mill chisel
mill cinder
mill construction
mill end
mill engineer
mill engineering
mill fever
mill hole
mill outlet
mill run
mill saw
mill store
mill town
mill wheel
mill work
mill-dam
mill-headed
mill-ink
mill-lead
mill-leat
mill-pond
mill-post
mill-race
mill-rind
mill-round
mill-run
mill-sixpence
mill-type motor
mill-wheel
mille marin
milled soap
miller's thumb
miller's-thumb
millet disease
millet grass
millet seed
millet-seed rash
milli-
milligram-hour
milline rate
milking cutter
milling machine
millionth comparator
millstone around your neck
millstone bridge
millwright chisel
milo disease
milo maize
milo root rot
milori blue
milori green
milpa system
mime artist
mimeograph copy
mimic thrush
miminy-piminy
mimosa bark
mimosa family
mimosa-leaved
min min
mince it
mince pie
mince the truth
mince words
mince-pie
minced meat
minced pie
minced-pie
mincing horse
mincing steps
mind blindness
mind body
mind cure
mind deafness
mind like a blotter
mind like a sieve
mind of your own
mind out
mind overthrown
mind reader
mind reading
mind the store
mind unhinged
mind what you are about
mind what you are doing
mind your P's and Q's
mind your business
mind your manners
mind your own business
mind's core
mind's eye
mind-altering drug
mind-blind
mind-blindness
mind-blowing
mind-blowing drug
mind-body
mind-body problem
mind-boggler
mind-boggling
mind-changer
mind-changing
mind-curist
mind-expanding
mind-expanding drug
mind-expansion
mind-healer
mind-healing
mind-infected
mind-matter theory
mind-perplexing
mind-ravishing
mind-reader
mind-set
mind-sick
mind-stricken
mind-stuff theory
mind-torturing
mind-wrecking
mind-your-own-business
minded to
mindful of
mindful of others
mindless of
mine detector
mine examiner
mine host
mine layer
mine of information
mine of wealth
mine pig
mine ship
mine sweeper
mine thrower
mine work
mine-run
miner's anemia
miner's asthma
miner's consumption
miner's dial
miner's inch
miner's lamp
miner's lettuce
miner's lung
miner's phthisis
mineral acid
mineral black
mineral blue
mineral brown
mineral charcoal
mineral coal
mineral deposit
mineral dressing
mineral jelly
mineral kingdom
mineral oil
mineral pigment
mineral pitch
mineral processing
mineral resources
mineral salt
mineral science
mineral seal oil
mineral sperm oil
mineral spirits
mineral spring
mineral tallow
mineral tar
mineral water
mineral waters
mineral wax
mineral wool
mineral world
mineral-bearing material
mineralogical chemistry
ming tree
mingle with
minor canon
minor chord
minor coin
minor criticism
minor detail
minor details
minor element
minor in
minor interval
minor key
minor league
minor matter
minor mode
minor operation
minor operations
minor order
minor orders
minor party
minor penalty
minor piece
minor planet
minor poet
minor premise
minor premiss
minor role
minor scale
minor second
minor seminary
minor seventh chord
minor suit
minor surgery
minor tenace
minor term
minor triad
minor wrong
minor-league
minor-leaguer
minority carrier
minority group
minority interests
minority leader
minority opinion
minority position
minority prejudice
minority voice
minstrel show
minstrel song
mint bush
mint camphor
mint condition
mint family
mint geranium
mint julep
mint leaves
mint of money
mint sauce
mint stamp
minus acceleration
minus sight
minus sign
minus some buttons
minuscule script
minute attention
minute bell
minute book
minute drops
minute glass
minute gun
minute hand
minute man
minute mark
minute of arc
minute quantity
minute steak
minute thing
minute things
minuteness of detail
mio-
mirabile dictu
miracle drug
miracle drugs
miracle man
miracle play
miracle player
miracle wheat
miracle-breeding
miracle-proof
miracle-worker
miracle-working
mire down
mire dromble
mire duck
miriti palm
mirror carp
mirror image
mirror image, the
mirror of the mind
mirror symmetry
mirror writer
mirror writing
mirror-faced
mirror-writing
mirth-inspiring
mirth-loving
mirth-making
mirth-marring
mirth-moving
mirth-provoking
mis-
mis-aver
mis-censure
mis-center
mis-citation
mis-cite
mis-con
mis-copy
mis-cue
mis-eat
mis-enter
mis-entry
mis-event
mis-hallowed
mis-hear
mis-hearer
mis-heed
mis-hit
mis-hold
mis-humility
mis-lie
mis-mark
mis-meet
mis-pen
mis-rely
mis-say
mis-season
mis-seat
mis-see
mis-seek
mis-seem
mis-send
mis-sense
mis-serve
mis-set
mis-shape
mis-shapen
mis-sheeted
mis-ship
mis-shod
mis-sing
mis-solution
mis-sort
mis-sound
mis-space
mis-speak
mis-spell
mis-spend
mis-start
mis-state
mis-steer
mis-step
mis-stitch
mis-stop
mis-strike
mis-stroke
mis-style
mis-succeeding
mis-sue
mis-suit
mis-sway
mis-swear
mis-sworn
mis-tilled
mis-tune
mis-union
mis-word
misbehave yourself
miscarriage of justice
miscellaneous drugs
misch metal
mischief-loving
mischief-maker
mischief-making
mischief-working
mischio marble
misconduct yourself
misdemean yourself
mise en sc
mise-en-scene
mise-enscene
miserable lot
misery in the head
misfortune difficulty
misfortune-proof
mish-mash
miso soup
miso-
misoshiru soup
misplaced modifier
misprision of felony
misprision of treason
misread the case
misread the situation
miss a cue
miss an opportunity
miss by a mile
miss fire
miss nothing
miss on the low side
miss out
miss stays
miss the boat
miss the bus
miss the chance
miss the mark
miss the market
miss the truth
miss your aim
miss your footing
miss your mooring
miss-fire
missa cantata
missal letter
missal stand
missel bird
missel thrush
missel tree
missel-bird
missel-thrush
missile engineer
missile engineering
missile guidance
missile man
missile program
missile project
missile research
missile science
missile technology
missile testing
missile warfare
missing link
mission accomplished
mission furniture
mission grass
missionaries apostolic
missionary alphabet
missionary apostolic
missionary position
missionary rector
missionary salesman
missionary weed
misspeak yourself
mist blue
mist concentrate sprayer
mist gray
mist-blotted
mist-blurred
mist-clad
mist-covered
mist-enshrouded
mist-exhaling
mist-impelling
mist-laden
mist-shrouded
mist-wet
mist-wreathen
mistle thrush
mistletoe bird
mistletoe cactus
mistress-piece
mistress-ship
misty rain
misty-eyed
misty-moisty
misunderstand one another
misuse of words
mitch board
mitch-board
miter box
miter box saw
miter cap
miter clamp
miter gear
miter jib
miter joint
miter saw
miter square
miter-clamped
miter-jointed
mitered jib
mitered sail
mithridate mustard
mitigating circumstances
mitis casting
mitis metal
mitral incompetence
mitral insufficiency
mitral stenosis
mitral valve
mitre block
mitre box
mitre joint
mitre square
mitre-jointed
mitre-wort
mitten money
mix Up
mix it up
mix it up with
mix up
mix with
mix yourself up with
mix-hellene
mix-up
mixed acid
mixed bag
mixed blessing
mixed bud
mixed cadence
mixed chorus
mixed crystal
mixed decimal
mixed doubles
mixed drink
mixed drinks
mixed economy
mixed farming
mixed foursome
mixed grill
mixed language
mixed larceny
mixed marriage
mixed metaphor
mixed nerve
mixed number
mixed race
mixed times
mixed up
mixed-blood
mixed-up
mixer tube
mixing faucet
mixing ratio
mixing room
mixing valve
mixo-
mixolydian mode
mixture curve
mixture stop
mixy-maxy
mizzen-mast
mizzen royal
mizzen sail
mizzen skysail
mizzen stay
mizzen staysail
mizzen-royal brace
mizzen-royal lift
mizzen-royal mast
mizzen-royal stay
mizzen-royal staysail
mizzen-royal yard
mizzen-skysail brace
mizzen-skysail lift
mizzen-skysail mast
mizzen-skysail stay
mizzen-skysail yard
mizzen-topgallant brace
mizzen-topgallant lift
mizzen-topgallant mast
mizzen-topgallant sail
mizzen-topgallant stay
mizzen-topgallant staysail
mizzen-topgallant yard
mizzen-topmast
mizzen-topmast stay
mizzen-topmast staysail
mizzen-topsail lift
mizzen-topsail yard
mks units
mmHg
mnemonic device
mob law
mob rule
mob tactics
mob, the
mob-cap
mob-minded
mobile antenna
mobile call
mobile camera
mobile command post
mobile home
mobile library
mobile militia
mobile radio
mobile tactics
mobile trailer unit
mobile transmitter
mobile unit
mobile vulgus
mobile warfare
moccasin flower
moccasin plant
moccasin telegraph
mocha stone
mochi wood
mock chicken
mock court
mock danger
mock epic
mock mold
mock moon
mock orange
mock pendulum
mock pennyroyal
mock sun
mock turtle
mock turtle soup
mock up
mock-beggar
mock-bird
mock-heroic
mock-heroic poetry
mock-heroical
mock-heroically
mock-up
mockernut hickory
mockery of justice
mockery-proof
mocking-bird
mocking-stock
mod cons
modulation monitor
modulus of elasticity
modulus of rigidity
modulus of volume elasticity
modus operandi
modus ponens
modus tollens
modus vivendi
moesogoth
mogul base
mogul locomotive
mohair rug
mohawk weed
mohs' scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resisting
moko-moko
mol wt
molar conductance
molar conductivity
molar tooth
molar volume
molar weight
molasses grass
mold fungus
mold loft
mold of perfection
moldboard plow
molded base line
molded breadth
molded depth
molded displacement
molded draft
molded form
molded line
molded plastic
molded salad
molding board
molding book
molding compounds
molding edge
molding plane
moldy nose
momentary success
momentary triumph
momentary-contact switch
momentum pump
momentum valve
mon cher
mon semblable
mon-
mon-khmer
monad deme
monaural system
monel metal
monesia bark
monetary arithmetic
monetary unit
money belt
money box
money broker
money changer
money changing
money chest
money clip
money cowry
money dealer
money dealing
money down
money getter
money going out
money illusion
money in hand
money market
money matter
money matters
money of account
money of necessity
money order
money player
money saver
money spider
money teller
money to burn
money wages
money's worth
money's-worth
money-bag
money-bloated
money-bound
money-box
money-breeding
money-changer
money-earning
money-getting
money-grasping
money-grub
money-grubbing
money-hungry
money-lender
money-loving
money-mad
money-maker
money-making
money-raisin
money-saving
money-spelled
money-spinner
money-wort
moneyed capital
moneyed corporation
moneyed man
mong corn
mongolian idiot
mongoloid idiocy
mongoloid idiot
mongoose plant
monilia disease
monistic idealism
monitor bug
monitor chuck
monitor room
monitor screen
monitoring booth
monitory letter
monk bat
monk parrot
monk saki
monk's cloth
monk's pepper tree
monk's robe
monk's-hood
monk-fish
monkey apple
monkey around
monkey bag
monkey block
monkey bread
monkey bread tree
monkey bridge
monkey business
monkey dog
monkey fist
monkey flower
monkey forecastle
monkey foresail
monkey jacket
monkey link
monkey nut
monkey paw
monkey pinscher
monkey pole
monkey poop
monkey puzzle
monkey rail
monkey suit
monkey tail
monkey tricks
monkey with
monkey wrench
monkey's fist
monkey-ball
monkey-face
monkey-faced
monkey-faced owl
monkey-god
monkey-pot
monkey-rigged
monkey-tail valve
monkey-tailed
monkeying around
mono carpellary
mono carpic
mono carpous
mono cephalous
mono ceros
mono chord
mono clinal
mono clinic
mono clinous
mono cyclic
mono-
mono-ideic
mono-ideism
mono-ideistic
mono-iodo
mono-iodohydrin
mono-iodomethane
mono-ion
monoamine oxidase
monobasic sodium phosphate
monochloro-
monochloroacetic acid
monochromatic film
monochromatic illuminator
monoclinic system
monocytic leukemia
monoenergetic neutron
monophonic system
monopolistic competition
monopolize the conversation
monopolize the thoughts
monopolize your attention
monopoly value
monorange speaker
monosodium glutamate
monostable circuit
monoxy-
monroe doctrine
mons pubis
mons veneris
monsoon low
monster-bearing
monster-breeding
monster-eating
monster-guarded
monster-taming
monster-teeming
monstrous lie
mont-de-piete
mont-de-pit
montan wax
montani semper liberi
monte bank
monte-jus
montes veneris
month after month
month in month out
month of Sundays
month's mind
monthly epact
monthly investment plan
monthly meeting
monthly payments
monument plant
monumental mason
monumental record
monumental sculpture
mooch around
mooch off
mood music
mood phrase
mood swing
moon around
moon base
moon blindness
moon daisy
moon dog
moon goddess
moon goddesses
moon jelly
moon jellyfish
moon knife
moon letter
moon orbit
moon pillar
moon rat
moon ray
moon ship
moon station
moon-blanced
moon-blasted
moon-blasting
moon-blind
moon-born
moon-bright
moon-browed
moon-calf
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
moon-fern
moon-fish
moon-flower
moon-gathered
moon-gazing
moon-glittering
moon-god
moon-gray
moon-led
moon-loved
moon-mad
moon-made
moon-man
moon-raised
moon-shaped
moon-stricken
moon-struck
moon-taught
moon-tipped
moon-touched
moon-trodden
moon-white
moon-whitened
mooneye cisco
moonlight blue
moonlight flit
moonlight requisition
moonlight school
moonseed family
moor besom
moor blackbird
moor buzzard
moor cock
moor grass
moor hen
moor myrtle
moor-bred
moor-cock
moor-fowl
moor-hen
moor-pout
mooring buoy
mooring chock
mooring harness
mooring line
mooring mast
mooring pendant
mooring pennant
mooring rack
mooring screw
mooring shackle
mooring swivel
mooring telegraph
mooring tower
moose call
moose elm
moral rectitude
moral rightness
moral sense
moral strength
moral support
moral theology
moral turpitude
moral victory
moral virtue
moral weakness
morality play
moralize upon
morally corrupt
morally polluted
morass ore
moray eel
morbid anatomy
morbid anxiety
morbid curiosity
morbid drive
morbid excitability
morbid growth
morbid psychology
morbid sensibility
morbidity rate
morbidly curious
morbidly sensitive
morbus Gallicus
mordant dye
mordant rouge
more and more
more desirable
more dict
more distant
more frightened than hurt
more heat than light
more in sorrow than in anger
more or less
more sol
more suo
more than a match for
more than doubtful
more than enough
more than ever
more than expected
more than half
more than meets the ear
more than meets the eye
more than one
more than you bargained for
more than you can afford
more than you can tell
more truth than poetry
morgan le fay
morganatic marriage
moriche palm
morn star
morning after
morning campion
morning coat
morning devotions
morning dress
morning glory
morning glory seeds
morning loan
morning prayer
morning prayers
morning services
morning sickness
morning star
morning time
morning twilight
morning watch
morning-breathing
morning-bright
morning-colored
morning-gift
morning-glory
morning-glory family
morning-glory sphinx
morning-tide
morning-watch
morning-winged
mornings after
morocco leather
mororation in composition
morph-
morphemic analysis
morphine meconate
morpho-
morphologic construction
morphological analogy
morphological botany
morphological individual
morphophonemic analysis
morris chair
morris dance
morris tube
morris-dance
morris-pike
morro castle
morrow-mass
morrow-tide
morse code
mort d'ancestor
mort note
mortal blow
mortal fear
mortal flesh
mortal horror
mortal mind
mortal remains
mortal sin
mortal wound
mortality committee
mortality rate
mortality table
mortalily ill
mortar and pestle
mortar barrage
mortar bed
mortar board
mortar boat
mortar fire
mortar ketch
mortar-board
mortgage bond
mortgage broker
mortgage company
mortgage deed
mortgage holder
mortgage points
mortgage shark
mortgage-holder
mortgaged to the hilt
mortgagee clause
mortification of the flesh
mortification root
mortify the flesh
mortify your flesh
mortify yourself
mortise and tenon joint
mortise block
mortise chisel
mortise gauge
mortise gear
mortise joint
mortise lock
mortise-and-tenon joint
mortuary roll
mortuum vadium
mosaic binding
mosaic bold
mosaic disease
mosaic dwarf
mosaic gold
mosaic work
mosaic-drawn
mosaic-floored
mosaic-paved
moschatel family
mosey along
mosey off
mosque swallow
mosquito bar
mosquito bee
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
mosquito netting
mosquito-bitten
mosquito-bred
mosquito-free
moss agate
moss animal
moss campion
moss fern
moss green
moss pink
moss rose
moss stitch
moss-back
moss-backed
moss-begrown
moss-bordered
moss-bound
moss-brown
moss-clad
moss-covered
moss-crowned
mother lode
mother love
mother naked
mother of coal
mother of dews
mother of pearl
mother of the Muses
mother of thyme
mother of vinegar
mother ship
mother spleenwort
mother superior
mother superiors
mother surrogate
mother symbol
mother tongue
mother wit
mother yaw
mother's boy
mother's darling
mother's day
mother's milk
mother's son
mother-church
mother-in-law
mother-in-law plant
mother-naked
mother-of-pearl
mother-of-pearl cloud
mother-of-pearl glass
mother-of-thousands
mother-of-thyme
mother-of-thymes
mother-sick
mother-spot
mothers superior
mothers-in-law
motion backwards
motion block
motion downward
motion forwards
motion from
motion in general
motion photomicrograph
motion picture
motion pictures
motion short of
motion sickness
motion study
motion to
motion to and fro
motion towards
motion upwards
motion work
motion-picture
motion-picture actor
motion-picture camera
motion-picture fan
motion-picture film
motion-picture photography
motion-picture projector
motion-picture show
motion-picture theater
motionless torrents
motivating force
motivation research
motivational research
motive column
motive force
motive power
motive-monger
motive-mongering
motley color
motley fool
motley-minded
motmot blue
motmot green
moto-
motor abreaction
motor ambulance
motor aphasia
motor assembler
motor builder
motor bus
motor car
motor caravan
motor coach
motor corps
motor court
motor drive
motor generator
motor hotel
motor impulse
motor inn
motor launch
motor lodge
motor lorry
motor neuron
motor oil
motor paralysis
motor park
motor pool
motor scooter
motor ship
motor torpedo boat
motor truck
motor unit
motor van
motor vehicle
motor vessel
motor-camper
motor-camping
motor-driven
motor-generator
motor-generator servo
motor-man
motor-minded
motor-mindedness
motor-ship
motor-speed control system
motorcycle race
motorcycle saddle
motorized vehicle
motorized warfare
mots justes
mottle-leaf
mottle-leaf mosaic
mottled enamel
mottled-top disease
motto kiss
motu proprio
motuca fly
moubata bug
moudy-warp
mould-board
moulding board
moulding-board
mouldy fig
moulin a paroles
mound bird
mound builder
mound maker
mound making
mound-builder
mound-building
mount Pegasus
mount an attack
mount an offensive
mount guard
mount the barricades
mount the ladder of success
mount the throne
mount up to
mount your high horse
mountain accentor
mountain adder
mountain artillery
mountain ash
mountain avens
mountain beaver
mountain bluebird
mountain bluet
mountain bracken
mountain bunch grass
mountain camellia
mountain cat
mountain chain
mountain climber
mountain cranberry
mountain creeper
mountain currant
mountain damso
mountain devil
mountain dew
mountain ebony
mountain fern
mountain fetterbush
mountain fever
mountain flax
mountain fleece
mountain foxtail
mountain fringe
mountain goat
mountain gorilla
mountain gun
mountain heath
mountain hollow
mountain holly fern
mountain laurel
mountain lilac
mountain lion
mountain mahogany
mountain maker
mountain making
mountain man
mountain maple
mountain nymph
mountain oyster
mountain parsley
mountain range
mountain redtop
mountain rice
mountain rose
mountain rosebay
mountain sage
mountain sandwort
mountain sheep
mountain sickness
mountain spleenwort
mountain starwort
mountain tent
mountain time
mountain timothy
mountain viscacha
mountain wave
mountain whitefish
mountain wind
mountain wine
mountain-built
mountain-dwelling
mountain-girdled
mountain-green
mountain-high
mountain-loving
mountain-sick
mountain-walled
mounted infantryman
mounted police
mounted policeman
mounting medium
mounting-block
mourners' bench
mourning band
mourning cloak
mourning cloak butterfly
mourning dove
mourning garment
mourning iris
mourning ring
mourning warbler
mouse barley
mouse bloodwort
mouse deer
mouse grass
mouse gray
mouse opossum
mouse out
mouse pox
mouse-brown
mouse-color
mouse-colored
mouse-colour
mouse-deer
mouse-dun
mouse-ear
mouse-ear chickweed
mouse-ear cress
mouse-ear hawkweed
mouse-eared
mouse-eaten
mouse-gray
mouse-hole
mouse-hunt
mouse-killing
mouse-pea
mouse-still
mousetail grass
mousetrap switch
mousing hook
mousquetaire gloves
mousseline de laine
mousseline de soie
mousseline sauce
moustache cup
mouth bow
mouth breathing
mouth footed
mouth glue
mouth harp
mouth hole
mouth honor
mouth organ
mouth piece
mouth-filling
mouth-made
mouth-organ
mouth-to-mouth
mouth-to-mouth method
mouth-to-mouth resuscitation
mouth-watering
movable feast
movable type
movable-do system
move along
move apart
move around
move aside
move away
move back
move behind
move for
move forward
move heaven and earth
move in
move in a circle
move in a groove
move in a rut
move into
move off
move on
move out
move over
move quickly
move to action
move to the side
move with the times
move you to
move your fanny
move your tail
moveable feast
movement of air
movie actor
movie camera
movie film
movie house
movie star
movie theater
movie-goer
movie-minded
movies, the
moving apart
moving average
moving cause
moving cluster
moving picture
moving road
much-hunger
much-lauded
much-loved
much-loving
much-mooted
much-pondering
much-praised
much-revered
much-sought
much-suffering
much-valued
much-worshiped
mucic acid
mucilage canal
mucilage cell
mucilage duct
muck about
muck around
muck bar
muck in
muck rolls
muck soil
muck up
muck-rake
muck-up
mucked up
mucking around
muckle hammer
muco-
mucoitin-sulphuric
mucoitinsulfuric acid
mucoso-
mucous colitis
mucous membrane
mucus body
mud bath
mud berth
mud dauber
mud drum
mud flat
mud heap
mud hen
mud house
mud lump
mud map
mud pie
mud pilot
mud pot
mud puddle
mud puppy
mud turtle
mud-bespattered
mud-built
mud-color
mud-colored
mud-exhausted
mud-fish
mud-lost
mud-roofed
mud-shot
mud-slinging
mud-splashed
mud-walled
muddle along
muddle away
muddle through
muddle-headed
muddle-minded
muddy-complexioned
muddy-mettled
mudslinging campaign
muermo family
muff coupling
muff your cue
muffin cap
muffin man
muffin pan
muffin turner
muffle color
muffle furnace
muffle kiln
muffle up
muffle-jaw
muffle-shaped
muffled drum
muffled drums
muffled tone
mug shot
mug up
mug-house
mug-up
mug-wet
muga moth
muga silk
muggy weather
mugho pine
muhammadan calendar
mui-tsai
muir ill
muir poot
mulatto jack
mulatto-wood
mulberry bird
mulberry family
mulberry wine
mulberry-faced
mulet law
mule armadillo
mule chair
mule chest
mule deer
mule skinner
mule spinning
mule train
mule-fat
mule-foot
mule-headed
mule-jenny
muley axle
muley cow
muley head
muley saw
mulga grass
mulier puisne
mulier younger
mull muslin
mull over
mullein dock
mullein foxglove
mullein pink
mullet hawk
mulligan stew
multi-
multi-colour
multi-jet
multi-ply
multi-prop
multi-scene control board
multiaxial joint
multiband antenna
multichannel analyser
multiflora rose
multigrid tube
multilateral symmetry
multilateral trade
multilinear form
multipath transmission
multiphase current
multiple algebra
multiple alleles
multiple allelism
multiple allelomorph
multiple circuit
multiple connection
multiple drill
multiple factor
multiple factors
multiple fission
multiple fruit
multiple image
multiple integr
multiple integral
multiple messages
multiple myeloma
multiple neuritis
multiple party system
multiple personality
multiple projector
multiple sclerosis
multiple series
multiple shop
multiple star
multiple store
multiple telegraph
multiple thread
multiple voting
multiple warhead
multiple-beam interferometer
multiple-choice
multiple-clutch
multiple-die
multiple-disk
multiple-disk clutch
multiple-dome
multiple-drill
multiple-feed closed loop
multiple-line
multiple-missile warhead
multiple-pass
multiple-series
multiple-speed
multiple-threaded
multiple-toothed
multiple-tuned
multiple-unit car
multiple-valued
multiplex circuit
multiplex receiver
multiplex telegraphy
multiplex transmission
multiplex tube
multiplication sign
multiplication table
multiplicative axiom
multiplicative group
multiplicative identity
multiplicative inverse
multiplier channels
multiplier phototube
multiply and replenish the earth
multiply by four
multiply by three
multiply by two
multiplying-glass
multipurpose plane
multipurpose tube
multistage flight
multistage rocket
multistage hydroplane
multivalent vaccine
multum in parvo
mum's the word
mumble-the-peg
mumblety-peg
mumbly-peg
mumbo jumbo
mumbo jumbos
mumbo-jumbo
mummy apple
mummy brown
mummy case
mummy chamber
mummy wheat
mummy-brown
mummy-cloth
mumping day
mumps meningitis
mundane astrology
mundane house
mung bean
municipal bond
municipal building
municipal corporation
municipal engineer
municipal securities
munition armor
munitions of war
munitions plant
mural coronet
mural crown
mural painting
murder en masse
murder the King's English
murder the Queen's English
murder wholesale
murder will out
murderous frenzy
murderous insanity
murexide reaction
murexide test
muriatic acid
murillo bark
murine opossum
murmur diphthong
murphy bed
murphy button
murrhine glass
mus b
muscae volitantes
muscle beach
muscle cell
muscle column
muscle fiber
muscle fibre
muscle in
muscle maker
muscle making
muscle man
muscle plasma
muscle power
muscle sense
muscle tissue
muscle-bound
muscle-bound between the ears
muscle-building
muscle-celled
muscle-kneading
muscle-tired
muscovy duck
muscl-
muscular disease
muscular dystrophy
musculo-
musculocutaneous nerve
muse on
muse on other things
muse over
muse upon
musette bag
museum beetle
museum piece
mush rot
mush through
mush up
mush-kinu
mushroom anchor
mushroom cloud
mushroom sauce
mushroom system
mushroom-colored
mushroom-grown
mushroom-shaped
music Muses
music arrangement
music box
music buff
music centre
music critic
music director
music division
music drama
music fan
music festival
music form
music hall
music in space
music lover
music lyre
music maker
music notation
music of the spheres
music paper
music passage
music patron
music patrons
music performance
music piece
music program
music roll
music room
music school
music score
music speech
music stand
music style
music theme
music theory
music wire
music-copying
music-drawing
music-flowing
music-footed
music-like
music-loving
music-mad
music-making
music-panting
music-stirring
music-tongued
musica falsa
musica ficta
musica mensurata
musical accent
musical box
musical chairs
musical comedy
musical copy
musical ear
musical flair
musical glasses
musical instrument
musical notation
musical note
musical ornament
musical part
musical passage
musical performance
musical phrase
musical piece
musical program
musical quality
musical revue
musical saw
musical scale
musical score
musical sense
musical sentence
musical sound
musical stage
musical suite
musical talent
musical theater
musical thought
musically inclined
musico-
musicogenic epilepsy
musing on the past
musique concr
musk ambrette
musk bag
musk deer
musk duck
musk hog
musk mallow
musk melon
musk orchid
musk ox
musk parrot
musk plant
musk rose
musk turtle
musk-cat
musk-cod
musk-deer
musk-duck
musk-ox
musk-rat
musk-root
musk-tree
musk-wood
muskeg moss
musket arrow
muskrat weed
muskus grass
muslin clipper
muslin delaine
musquash root
muss up
mussaenda coffee
musset up
mussel bill
mussel crab
mutton-head
mutton-legger
muttonchop whiskers
mutual admiration
mutual affinity
mutual agreement
mutual aid
mutual approach
mutual assistance
mutual attraction
mutual company
mutual concession
mutual fund
mutual impedance
mutual inductance
mutual induction
mutual insurance
mutual regard
mutual replacement
mutual repulsion
mutual savings bank
mutual support
mutual supportiveness
mutual transfer
mutual understanding
mutual-defense treaty
mutually approaching
muu-muu
muzzle ring
muzzle velocity
muzzle yourself
muzzle-loader
muzzle-loading
muzzy speech
my Angel-infancy
my Father's house
my boys
my burning youth
my craft and sullen art
my goodness
my green age
my humble self
my love
my nearest and dearest enemy
my stars
my word
my-
myall wood
myasthenia gravis
myc-
myceto-
myco-
mycobacterium paratuberculosis
mydas fly
myel-
myelin sheath
myelo-
myelogenous leukemia
myeloid leukemia
myna bird
mynad-minded
myo-
myocardial infarction
myocardial insufficiency
myoclonous epilepsy
myogen fibrin
myosin fibrin
myosotis blue
myovascular insufficiency
myrcia oil
myria-
myriad-leaf
myriad-leaves
myriad-minded
myricyl alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
myrtle berry
myrtle bird
myrtle grass
myrtle green
myrtle-berry
myrtle-leaved
mystery clock
mystery grass
mystery of mysteries
mystery play
mystery religion
mystery story
mystery tour
mystical experience
mystical intuition
mystical theology
mystico-
mystico-allegoric
mystico-religious
mythical lore
mythical monster
mythical monsters
mythico-
mythico-historical
mythico-philosophical
mythico-romantic
mytho-
myxo-
n number
n'est-ce pas
n-
n-dimensional
n-ple
n-ply
n-tuple
n-tuple linear algebra
n-tuply
n-type
nCi
nF
nW
na zdorov'e
na-dene
nacreous cloud
nag at
nag-tailed
nagaed wood
nagami kumquat
nail bed
nail bit
nail bone
nail brush
nail caster
nail down
nail enamel
nail file
nail filer
nail filing
nail fold
nail hole
nail maker
nail making
nail molder
nail polish
nail puller
nail set
nail up
nail varnish
nail violin
nail water
nail your colors to the mast
nail-bearing
nail-biting
nail-clipping
nail-cutting
nail-head
nail-headed
nail-paring
nail-pierced
nail-shaped
nail-sick
nail-studded
nail-tailed
nailed down
nailer joist
nailhead rust
nailhead spar
nailhead spot
naive realism
nake-footed
naked as a jaybird
naked as a needle
naked as a worm
naked as my nail
naked as the day one was born
naked as the day you were born
naked eye
naked fact
naked floor
naked force
naked ladies
naked oat
naked singularity
naked smut
naked steel
naked to
naked-armed
naked-bladed
naked-eared
naked-eye
naked-eyed
naphthol black
naphthol blue black
naphthol yellow
naphthyl group
naphthyl methyl ketone
naphthyl radical
naphthylamine black
napier's bones
napkin pattern
napkin ring
narcissus fly
narco-
narcotic injection
narcotic shot
narcotic stupor
narcotic trance
narcotico-acrid
narcotico-irritant
narcotics addict
narcotics agent
narcotics pusher
narcotics smuggling
narcotics traffic
nark it
narkul grass
narra amarilla
narra blanca
narra encarnada
narrative poem
narrative poetry
narrow boat
narrow brush
narrow down
narrow escape
narrow gauge
narrow house
narrow margin
narrow means
narrow place
narrow seas
narrow squeak
narrow sympathies
narrow the gap
narrow views
narrow-backed
narrow-billed
narrow-bladed
narrow-brained
narrow-breasted
narrow-celled
narrow-chested
narrow-crested
narrow-ended
narrow-eyed
narrow-faced
narrow-fisted
narrow-gage
narrow-gauge
narrow-gauged
narrow-guage
narrow-guaged
narrow-headed
narrow-hearted
narrow-hipped
narrow-jointed
narrow-laced
narrow-leaved
narrow-leaved oat grass
narrow-meshed
narrow-minded
narrow-minedly
narrow-mindedness
narrow-mouthed
narrow-mouthed toad
narrow-necked
narrow-nosed
narrow-petaled
narrow-rimmed
narrow-seeded
narrow-shouldered
narrow-shouldred
narrow-skulled
narrow-souled
narrow-spirited
narrow-spiritedness
narrow-streeted
narrow-throated
narrow-toed
narrow-visioned
narrow-waisted
narrowing gap
nary one
nas-
nasal accent
nasal bone
nasal cavity
nasal concha
nasal discharge
nasal gleet
nasal index
nasal tone
nasal twang
nascent condition
nascent state
nash-gab
naso-
nasolacrimal duct
nastic movement
nasturtium family
nasturtium red
nasturtium yellow
nasty blow
nasty crack
nasty look
natal day
natch-bone
nation hood
nation-state
national accounting
national anthem
national assembly
national assistance
national bank
national bank note
national blue
national cemetery
national chairman
national church
national code
national convention
national debt
national economy
national emergency
national flag
national forest
national guard
national holiday
national honor
national income
national insurance
national language
national leader
national leadership
national literature
national militia
national monument
national newspaper
national park
national product
national school
national service
national socialism
national style
native Australian
native bear
native cleverness
native companion
native dextran
native environment
native land
native language
native metals
native millet
native mineral
native oak
native peach
native soil
native speaker
native speech
native tendency
native timothy
native to
native to the heath
native to the place
native to the soil
native tongue
native wit
native-born
native-born citizenship
native-bornness
natura non facit saltum
natural affection
natural aids
natural astrology
natural child
natural childbirth
natural classification
natural color
natural death
natural development
natural dye
natural dyestuff
natural endowment
natural fiber
natural gas
natural gender
natural geometry
natural gift
natural growth
natural harbor
natural hierarchy
natural history
natural idiot
natural immunity
natural impulse
natural instinct
natural language
natural law
natural levee
natural logarithm
natural magic
natural man
natural mineral
natural minor
natural number
natural person
natural philosopher
natural philosophy
natural politeness
natural radioactivity
natural realism
natural realist
natural religion
natural resources
natural right
natural rights
natural rubber
natural science
natural scientist
natural selection
natural state
natural tendency
natural theology
natural to
natural varnish
natural virtue
natural virtues
natural wit
natural world
natural-born
natural-born fool
naturalis possessio
naturalistic description
naturalistic fallacy
naturalistic humanism
naturalized citizen
naturalized citizenship
nature book
nature cure
nature deity
nature in the raw
nature myth
nature philosopher
nature philosophy
nature printing
nature spirit
nature strip
nature study
nature trail
nature worship
nature worshiper
nature’s nobleman
nature-print
nature-printing
naughty child
naughty pack
naughty word
nautch dance
nautch girl
nautical chain
nautical day
nautical mile
naval academy
naval air station
naval aircraft
naval architecture
naval auxiliary
naval bomber
naval brass
naval cadet
naval college
naval combat
naval crown
naval engineer
naval fighter
naval forces
naval intelligence
naval interceptor
naval medicine
naval militia
naval mine
naval officer
naval operations
naval pilot
naval pipe
naval reserve
naval school
naval stores
naval vessel
naval vessels
naval warfare
naval-intelligence man
navel ill
navel orange
navel pipe
navel point
navel-shaped
navigable airspace
navigable river
navigable semicircle
navigate in space
navigating bridge
navigating bridge deck
navigating officer
navigation act
navigation and ranging
navigation light
navigation lights
navigation of empty space
navigation radius
navigation weir
navigational satellite
navigator's bubble
navigator-bombardier trainer
navy agent
navy bean
navy bill
navy blue
navy board
navy cross
navy cut
navy green
navy league
navy leaguer
navy man
navy plug
near-at-hand
near-blindness
near-bordering
near-by
near-colored
near-coming
near-dwelling
near-fighting
near-following
near-growing
near-guessed
near-hand
near-legged
near-miss
near-point
near-related
near-sembling
near-sight
near-sighted
near-silk
near-smiling
near-stored
near-threatening
near-touching
near-ushering
near-white
nearly die laughing
nearly duplicate
nearly duplicated
nearly replicate
nearly replicated
nearly reproduce
nearly reproduced
nearly the same
neat as a button
neat as a pin
neat as wax
neat house
neat line
neat price
neat profit
neat soap
neat weight
neat's foot
neat's leather
neat's tongue
neat's-foot oil
neat-ankled
neat-dressed
neat-faced
neat-fingered
neat-folded
neat-footed
neat-handed
neat-handedly
neat-handedness
neat-house
neat-limbed
neat-looking
neat-handedly
neat-house
neb-neb
nebula of Lyra
nebula of Orion
nebular hypothesis
nebulous stars
necessary condition
necessary stool
necessity money
necessity's sharp pinch
neck and crop
neck and heels
neck and neck
neck canal cell
neck cell
neck cord
neck deep
neck handkerchief
neck journal
neck molding
neck of the woods
neck or nothing
neck rot
neck strap
neck sweetbread
neck verse
neck yoke
neck-and-neck race
neck-band
neck-beef
neck-bone
neck-break
neck-breaking
neck-cracking
neck-deep
neck-fast
neck-high
neck-hole
needle fir
needle furze
needle girder
needle gorse
needle grass
needle grinder
needle grinding
needle gun
needle holder
needle ironstone
needle juniper
needle lace
needle loom
needle maker
needle ore
needle palm
needle point
needle pointer
needle scar
needle spar
needle spike rush
needle telegraph
needle time
needle tooth
needle trade
needle valve
needle weir
needle whin
needle-and-ball indicator
needle-and-thread
needle-bar
needle-billed
needle-fish
needle-form
needle-gun
needle-leaved
needle-made
needle-nosed
needle-point
needle-point lace
needle-pointed
needle-scarred
needle-shaped
needle-sharp
needle-witted
needle-nose pliers
needs must
needs-be
neither fish nor fowl
neither here nor there
neither hide nor hair
neither hot nor cold
neither more nor less
neither nobility nor clergy
neither one thing nor the other
nem con
nemat-
nematode worm
nemean lion
nemine contradicente
nemine dissentiente
nemo me impune lacessit
neo-
neo-Catholic
neo-Celtic
neo-Christianity
neo-Darwinian
neo-Darwinism
neo-Darwinist
neo-Gothic
neo-Greek
neo-Hippocratic medicine
neo-Plasticism
neo-Platonician
neo-Roman
neo-Sanskrit
neo-Sanskritic
neo-Scholastic
neo-Scholasticism
neo-Sogdian
neo-Sumerian
neo-Syriac
neo-Thomism
neo-classic
neo-classicist
neo-darwinian
neo-darwinism
neo-grammariy
neo-impressionism
neo-lamarckism
neo-orthodoxy
neo-scholastic
neo-scholasticism
neocolonialist threat
neoconcrete art
nettle-rough
nettle-stung
nettle-tree
nettling cell
network affiliations
network pulser
network show
network stations
neufchatel cheese
neur-
neural arch
neural axis
neural canal
neural cavity
neural crest fold
neural gland
neural groove
neural lamina
neural plate
neural process
neural shield
neural spine
neural tube
neuraminic acid
neuro-
neurocirculatory asthenia
neurogenic shock
neurological disease
neuromotor apparatus
neuron doctrine
neurotic disorder
neurotic personality
neurotic-depressive reaction
neuter passive
neuter verb
neutral acriflavine
neutral atom
neutral axis
neutral color
neutral corner
neutral ground
neutral monist
neutral point
neutral position
neutral red
neutral spirits
neutral territory
neutral tint
neutral zone
neutral-tinted
neutralist nation
neutro-
neutron bomb
neutron factory
neutron number
neutron reaction
neutron star
never a one
never be forgotten
never cease
never die
never end
never fear
never feel better
never finish
never forget
never free from
never hear the last of
never idle
never in all your born days
never in my life
never in the world
never let go
never let on
never mind
never nod
never on earth
never on time
never otherwise
never pass
never say die
never sleep
never so
never stoop
never to be erased from the mind
never to be forgotten
never to return
never touch
never-ceasing
never-ceasingly
never-certain
never-changing
never-conquered
never-constant
never-daunted
never-dead
never-dietree
never-dying
never-ended
never-ending
never-endingly
never-endingness
never-fading
never-failing
never-lasting
never-needed
never-never
never-never country
never-never land
never-quenching
never-ready
never-resting
never-resting thing called Time
never-satisfied
never-say-die
never-setting
never-shaken
never-silent
never-sleeping
never-smiling
never-stable
never-strike
never-swerving
never-tamed
never-tiring
never-to-be-equaled
never-trodden
never-twinkling
never-vacant
never-varied
never-varying
never-waning
never-wearied
never-winking
never-withering
new arrival
new beginning
new birth
new blue
new boy
new broom
new brutalism
new catholic edition
new church
new covenant
new critic
new criticism
new deal
new departure
new englander
new english bible
new ethical movement
new generation
new greek
new halfpenny
new hampshire
new hebrew
new high
new humanism
new issue
new latin
new lease on life
new life
new light
new look
new man
new math
new mathematics
new maths
new meaning
new mintage
new moon
new moon bob
new morality
new pence
new penny
new penny Brit
new phase
new philharmonic pitch
new planets
new realism
new sense
new slant
new style
new term
new testament
new theology
new thought
new to
new town
new twist
new wave
new wine
new wine in old bottles
new wool
new word
new world
new wrinkle
new year
new year's day
new yorker
new zealander
new-admitted
new-apparel
new-array
new-awaked
new-begotten
new-bladed
new-bloomed
new-blown
new-born
new-built
new-coined
new-come
new-create
new-cut
new-day
new-fallen
new-fashion
new-fashioned
new-fire method
new-fledged
new-found
new-front
new-furbish
new-furnish
new-grown
new-laid
new-light
new-looking
new-made
new-mint
new-minted
new-mintedness
new-model
new-modeler
new-mown
new-name
new-people
new-rich
news-letter
news-making
news-man
news-seeking
news-sheet
news-writer
newspaper of record
newspaper post
newspaper syndicate
newton-meter
next best
next best thing
next door
next door to
next friend
next in line
next life
next of kin
next to
next to nothing
next ways
next world
next-beside
next-door
next-door neighbor
nexus of cause and effect
nez perce
ngai camphor
ni-hard iron
ni-resist iron
nibbing plank
nibble at
nibble away
nibby-jibby
nice Nelly
nice body
nice distinction
nice ear
nice going
nice guy
nice nellie
nice piece of work
nice predicament
nice-Nellie
nice-Nellyism
nice-nelly
nice-nellyism
nicene creed
niceness of distinction
niche in the hall of fame
nicht wahr
nick of time
nick-eared
nick-nack
nickel acetate
nickel bloom
nickel bronze
nickel calciner
nickel carbonyl
nickel glance
nickel gray
nickel green
nickel gymnite
nickel monoxide
nickel ocher
nickel oxide
nickel plate
nickel protoxid
nickel sesquioxide
nickel silver
nickel steel
nickel tetracarbonyl
nickel-cadmium battery
nickel-iron accumulator
nickel-plate
nickel-plated
nickelic oxide
nickelous oxide
nicker nut
nicker tree
nicker-tree
nicotine addict
nicotine addiction
nicotine sulphate
nicotinic acid
nicotinic acid amide
nictitating membrane
nid-nod
niddle-noddle
niddy-noddy
nieve penitente
nievie-nievie-nick-nack
niff-naff
niff-naffy
niffy-naffy
niger oil
niger seed
nigger bug
nigger chaser
nigger chub
nigger daisy
nigger heaven
nigger pine
nigger toe
niggerhead cactus
nigh about
nigh by
nigh hand
nigh on
nigh onto
nigh side
nigh-destroyed
nigh-drowned
nigh-ebbed
nigh-hand
nigh-naked
nigh-past
nigh-spent
night adder
night and day
night ape
night bird
night blindness
night blue
night bolt
night cart
night chair
night clothes
night cloud
night club
night court
night crawler
night crow
night dancer
night dew
night dial
night editor
night effect
night emerald
night fighter
night fire
night flower
night green
night heron
night willow herb
night-bird
night-black
night-blind
night-blindness
night-blooming
night-blooming cereus
night-blowing
night-born
night-bringing
night-cap
night-cellar
night-cheering
night-clad
night-cloaked
night-clothes
night-club
night-clubbed
night-clubbing
night-contending
night-cradled
night-crow
night-dark
night-decking
night-dispersing
night-dress
night-enshrouded
night-eyed
night-fallen
night-faring
night-feeding
night-filled
night-flowering
night-fly
night-flying
night-folded
night-foundered
night-gaping
night-glass
night-gown
night-grown
night-hag
night-haired
night-haunted
night-hawk
night-heron
night-hid
night-light
night-long
night-mantled
night-night
night-overtaken
night-owl
night-piece
night-prowling
night-rail
night-raven
night-riding
night-robbing
night-robe
night-robbed
night-rolling
night-scented
night-season
night-shift
night-shining
night-shirt
night-singing
night-spell
night-straying
night-struck
night-swaying
night-swift
night-swollen
night-tide
night-time
night-traveling
night-tripping
night-veiled
night-walker
night-wandering
night-warbling
night-watch
night-watching
night-watchman
night-work
nightclub habitue
nightshade family
nighty-night
nigrosine spirit-soluble
nigrosine water-soluble
nigrospora cob rot
nihil ad rem
nihil album
nihil debet
nihil dicit
nihil ex nihilo
nihil habet
nihil obstat
nihilistic delusion
niku-bori
nil admirari
nil desperandum
nil nisi bonum
nil sine numine
nile green
nilly-willy
nilpotent algebra
nim tree
nimble mind
nimble will
nimble wit
nimble-eyed
nimble-feathered
nimble-fingered
nimble-footed
nimble-headed
nimble-heeled
nimble-jointed
nimble-mouthed
nimble-moving
nimble-pinioned
nimble-shifting
nimble-spirited
nimble-stepping
nimble-tongued
nimble-toothed
nimble-winged
nimble-witted
nimble-wittedness
nimbus cloud
niminy-pimininess
niminy-piminy
niminy-piminynism
nimmy-pimmy
nimonic alloy
nine days' wonder
nine o'clock
nine points of the law
nine-banded
nine-banded armadillo
nine-circled
nine-cornered
nine-day
nine-eyed
nine-eyed eel
nine-eyes
nine-foot
nine-hole
nine-holes
nine-hour
nine-inch
nine-jointed
nine-killer
nine-knot
nine-lived
nine-mile
nine-part
nine-part measure
nine-part time
nine-ply
nine-point
nine-point circle
nine-pound
nine-pounder
nine-power
nine-share
nine-shilling
nine-spined
nine-spined stickleback
nine-spot
nine-spotted
nine-syllabled
nine-tailed
nine-tenths
nine-voiced
nine-word
nine-year
ninepenny morris
ninepin block
nineteenth hole
nineteenth man
ninety-acre
ninety-day
ninety-day wonder
ninety-eight
ninety-eighth
ninety-fifth
ninety-first
ninety-five
ninety-four
ninety-fourth
nitros-
nitroso group
nitroso radical
nitroso-
nitrosyl chloride
nitrosylsulfuric acid
nitrous acid
nitrous bacteria
nitrous bacterium
nitrous ether
nitrous oxide
nitroxanthic acid
nitta tree
nitty-gritty
nitty-gritty, the
njave butter
njave oil
no alternative
no ball
no beauty
no better than she should be
no better than you should be
no buts about it
no catch
no chance
no charge
no chicken
no choice
no claim
no conjuror
no contest
no credit to
no depth
no dice
no difference
no doubt
no dumbbell
no ear
no end
no end of
no end of a fellow
no end to
no exit
no expectation
no fear
no few
no fine print
no fine print at the bottom
no flies on
no go
no great matter
no great shakes
no holds barred
no hope
no ifs
no ifs, ands, or buts
no joke
no joker
no joker in the deck
no kicker
no laughing matter
no less
no less than
no longer among us
no longer present
no longer with us
no love lost
no ma'am
no man
no man's land
no matter
no matter how
no matter what
no matter when
no matter which
no matter who
no mean
no mo
no modest violet
no more
no more and no less
no more beyond
no nearer
no nerves
no one
no onenobody
no other
no picnic
no place higher
no prize
no room for error
no room to swing a cat
no say
no scholar
no sir
no sirree
no skin off your back
no skin off your elbow
no skin off your nose
no slouch
no small print
no soap
no sooner said than done
no stranger to
no strings
no strings attached
no such a thing
no such thing
no sweat
no time
no time at all
no time to be lost
no title
no two ways about it
no use
no water
no way
no way out
no whit
no-account
no-ball
no-being
no-bottom sounding
no-claim bonus
no-claims bonus
no-count
no-deposit
no-deposit-no-return
no-eye pea
no-fault
no-fault insurance
no-go
no-go area
no-go gauge
no-good
no-hit
no-hitter
no-hoper
no-load fund
no-man's-land
no-no
no-nonsense
no-one
no-par
no-par stock
no-par-value
no-place
no-rent land
no-show
no-side
no-surrender
no-system
no-thoroughfare
no-tillage
no-trump
no-trumper
noan's ark
noble prize
nobiliary particle
noble ambition
noble art
noble art of self-defense
noble birth
noble experiment
noble fir
noble gas
noble metal
noble metals
noble opal
noble rank
noble rank or birth
noble savage
noble-born
noble-couraged
noble-featured
noble-fronted
noble-looking
noble-minded
noble-mindedly
noble-mindedness
noble-natured
noble-spirited
noble-tempered
noble-visaged
noblesse d'epee
noblesse de robe
noblesse oblige
nobody home
nobody knows
nobody on earth
nobody one knows
nobody present
nobody special
nobody the wiser
nobody under the sun
nobody's fool
nobody's patsy
nobody's sucker
nocking point
noct-
nocti-
octurnal arc
nocturnal epilepsy
nod assent
nod of assent
nod off
nod to
nod to its fall
nod to your fall
nodal point
nodding acceptance
nodding acquaintance
nodding cap
nodding lilac
nodding to its fall
nodding trillium
noddy tern
node house
node longitude
node of Ranvier
nodi-
nodical month
nodule disease
noise about
noise abroad
noise and shouting
noise factor
noise field intensity
noise figure
noise interference
noise limiter
noise pollution
noise suppressor
noise-canceling microphone
noiseless foot of Time
noisette brown
nol pros
nol-pros
nol-prossed
nol-prossing
nolens volens
noli me tangere
noli-me-tangere
noll-kholl
nolle prosequi
nolo contendere
nom de guerre
nom de plume
nom de theatre
nombril point
nomen nudum
nominal charge
nominal damages
nominal head
nominal partner
nominal price
nominal rate
nominal value
nominal wages
nominating convention
nomination borough
nomination in the race
nominative absolute
nominative of address
nomo-
noms de guerre
non avenu
non compos
non compos mentis
non est
non est inventus
non licet
non liquet
non nobis
non obst
non obstante
non placet
non plus
non plus ultra
non possumus
non pros
non prosequitur
non rep
non repetatur
non seq
non sequitur
non troppo
non ultra
non-
non-African
non-Alexandrian
non-American
non-Anglican
non-Arab
non-Arabic
non-Aryan
non-Asian
non-Asiatic
non-Attic
non-Bantu
non-Baptist
non-Biblical
non-Biblically
non-Bolshevik
non-Bolshevism
non-Bolshevist
non-Bolshevistic
non-Brahmanic
non-Brahmanical
non-Brahminic
non-Brahminical
non-British
non-Buddhist
non-Buddhistic
non-Calvinist
non-Calvinistic
non-Calvinistical
non-Catholic
non-Caucasian
non-Caucasic
non-Caucasoid
non-Celtic
non-Chaucerian
non-Chinese
non-Christian
non-Congregational
non-Congressional
non-Cymric
non-Czech
non-Czechoslovakian
non-Danish
non-Darwinian
non-Druid
non-Egyptian
non-English
non-Episcopalian
non-Euclidean
non-Euclidean geometry
non-European
non-Flemish
non-French
non-Gaelic
non-German
non-Germanic
non-Gothic
non-Gothically
non-Greek
non-Gypsies
non-Gypsy
non-Hebraic
non-Hebraically
non-Hebraically
non-Hebrew
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non-Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelsitic
non-Israeli
non-Italian
non-Italic
non-Japanese
non-Jew
non-Jewish
non-Kaffir
non-Latin
non-Lutheran
non-Magyar
non-Malay
non-Malayan
non-Malthusian
non-Mediterranean
non-Mendelian
non-Methodist
non-Methodistic
non-Mohammedan
non-Mongol
non-Mongolian
non-Mormon
non-Moslem
non-Moslems
non-Muhammadan
non-Muhammedan
non-Muslem
non-Muslems
non-Muslim
non-Muslims
non-Negritic
non- Negro
non-Negroes
non-Newtonian
non-Nicene
non-Nordic
non-Norman
non-Norse
non-Oscan
non-Parisian
non-Peruvian
non-Polish
non-Portuguese
non-Presbyterian
non-Protestant
non-Prussian
non-Quaker
non-Quakerish
non-Roman
non-Russian
non-Sabbatic
non-Sabbatical
non-Sabbatically
non-Sanskritic
non-Saxon
non-Scandinavian
non-Semite
non-Semitic
non-Shakespearean
non-Shakespearian
non-Slavic
non-Spanish
non-Spartan
non-Stoic
non-Swedish
non-Swiss
non-Syrian
non-Tartar
non-Teuton
non-Teutonic
non-Trinitarian
non-Turk
non-Turkic
non-Turkish
non-Tuscan
non-U
non-Ukrainian
non-Umbrian
non-Unitarian
non-Uralian
non-Vedic
non-Venetian
non-Virginian
non-Welsh
non-White
non-Zionist
non-ability
non-access
non-appearance
non-arcking
non-assumpsit
non-attendance
non-claim
non-co-operate
non-co-operation
non-co-operationist
non-co-operative
non-co-operator
non-co-ordination
non-coll
non-collegiate
non-com
non-combatant
non-commissioned
non-committal
non-communicant
non-compounder
non-con
non-condensing
non-conductor
non-contagion
non-content
non-contradiction
non-effective
non-efficient
non-ego
non-elect
non-electric
on-ens
non-essential
non-euclidean
non-existence
non-existent
non-feasance
non-gremial
non-importation
non-intercourse
non-interference
non-intervention
non-intrusion
non-iron
non-joinder
non-jurant
non-juring
non-juror
non-jury
non-literate
non-member
non-metal
non-moral
non-natty
non-natural
non-necessity
non-noble
non-obedience
non-payment
non-performance
non-placet
non-proficiency
non-profit-making
non-pros
non-prosequitur
non-prossed
non-prossing
non-recoiling
non-reduction
non-regent
non-regulation
non-residence
non-resident
non-residential
non-resistance
non-resistant
non-society
non-striker
non-subscriber
non-substantial
non-tenure
non-term
non-union
non-user
non-vascular
nona-
onaction calligraphist
nonaction calligraphy
nonaggression pact
nonalcoholic beverage
nonaligned nation
nonanoic acid
nonapparent easement
nonapparent servitude
nonassessable mutual
nonassessable stock
noncallable bond
noncallable securities
noncanonical writings
nonce word
nonce, the
nonchord tone
nonco-operation
nonco-operationist
nonco-operator
noncommissioned officer
noncommutative algebra
noncondensing engine
noncontingent existence
noncontingent free will
noncritical mass
nondestructive testing
nondirectional antenna
nondirectional microphone
nondirective therapy
nondischarge of debts
nondrying oil
none else
none of your business
none other
none to spare
none too soon
none-so-pretties
none-so-pretty
nonfat dry milk
nonfat milk
nonstandard speech
nonsusceptibility to disease
nonsusceptible to disease
nontransferable vote
nontuple time
nonunion shop
nonvalue bill
nonverbal communication
nonvintage wine
nonviolent change
nonviolent protest
nonviolent resistance
nonvolatile oil
nonvoting stock
nonyl alcohol
noodle-head
noogoora bur
nook shaft
nook-shotten
noon-light
noonday light
noonday night
noontide light
nor flesh
nor good red herring
nor nee
nor yet
nor'-west
nor'-wester
nor-
nor-noreast
norfolk howard
norfolk jacket
norm of perfection
normal atom
normal axis
normal barrage
normal curve
normal distribution
normal divisor
normal equivalent deviate
normal landing
normal load
normal loop
normal magnification
normal matrix
normal orthogonal
normal pentane
normal pitch
normal saline solution
normal school
normal series
normal spin
normal tax
normal unemployment
normalized text
norman architecture
norman-french
normative system
normed conjugate
normed space
north about
north briton
north by east
north by west
north celestial pole
north country
north germanic
north mark
north pole
north sea
north shore
north side
north star
north wind
north-countriness
north-countryman
north-east
north-easter
north-easterly
north-eastern
north-eastward
north-end
north-following
north-light
north-north-east
north-north-west
north-northeast
north-northeastward
north-northeastwardly
north-northeastwards
north-northwest
north-northwestward
north-northwestwardly
north-northwestwards
north-northpolar
north-preceding
north-seeking
north-sider
north-west
north-wester
north-westerly
north-western
north-westward
northeast by east
northeast by north
northeast storm
northern canoe
northern cross
northern crown
northern harvestfish
northern hemisphere
northern kingfish
northern lights
northern mammoth
northern pike
northern porgy
northern red currant
northern redtop
northern sennet
northern studdish
northwest by north
northwest by west
norwegian elkhound
nos-
nosce te ipsum
nose ape
nose around
nose around for
nose bag
nose bit
nose cone
nose count
nose dive
nose down
nose drops
nose ender
nose flute
nose glasses
nose guard
nose hitch
nose into
nose iron
nose key
nose leaf
nose out
nose over
nose peg
nose pipe
nose radiator
nose rag
nose ring
nose stiffener
nose to nose
nose to nose with
nose turret
nose up
nose wheel
nose-bag
nose-band
nose-belled
nose-bleed
nose-dive
nose-dived
nose-diving
nose-dove
nose-grown
nose-heavy
nose-high
nose-leafed
nose-led
nose-nippers
nose-piece
nose-piercing
nose-pipe
nose-pulled
nose-ring
nose-shy
nose-smart
nose-thirl
nose-thumbing
nose-tickling
nose-up
nose-wise
nosee-um
nosegay tree
nosewheel undercarriage
nosey Parker
nosh-up
noso-
nostalgia for the past
nosy Parker
nosy parker
not a Chinaman's chance
not a bad idea
not a bit
not a bit alike
not a bit of difference
not a bit of it
not a blessed one
not a blessed soul
not a breath of air
not a chance
not a dream
not a few
not a hint
not a jot
not a jot or tittle
not a leaf stirring
not a lick
not a lick or smell
not a little
not a mite
not a one
not a particle
not a patch on
not a pin to choose
not a prayer
not a scrap
not a shadow of a suspicion
not a single one
not a single person
not a smidgen
not a smitch
not a snowball's chance in hell
not a soul
not a speck
not a stitch
not a stitch to your back
not a stitch to your name
not a suspicion
not a trace
not a whit
not abide
not absolutely
not accept
not accept compromise
not accept defeat
not accomplish
not accord with
not add up
not admit
not affordable
not agree
not all there
not allow
not allow yourself to believe
not allowed
not amiss
not amount to a damn
not amount to a hill of beans
not amount to anything
not an illusion
not an iota
not another peep out of you
not another word
not answer
not anticipate
not anticipated
not any
not appreciate
not approach
not approve
not as young as you used to be
not at all
not at any price
not at issue
not attend
not back down
not bad
not bargain for
not bat an eye
not bat an eyelash
not be a bit surprised
not be able
not be able to abide
not be able to account for
not be able to bear
not be able to dispense with
not be able to do without
not be able to down
not be able to endure
not be able to say much for
not be able to sit down
not be able to stand still
not be able to swallow
not be able to abide
not be affected by
not be all there
not be at home to
not be behindhand
not be born yesterday
not be caught flatfooted
not be content with
not be entitled to
not be found
not be good for
not be in existence
not be in it
not be in pigtails
not be in your right mind
not be likely
not be met with
not be on speakers
not be on speaking terms
not be on time
not be ready
not be right in the head
not be surprised
not be taken in by
not be too visible
not be up to
not be versed
not be with it
not bear
not bear inspection
not bear with
not beat about the bush
not believe
not believe your ears
not believe your eyes
not believe your senses
not believed
not blink an eye
not boggle at anything
not born yesterday
not breathe
not breathe a word
not bright
not brook
not budge
not budge an inch
not butt in
not buy
not by a damn sight
not by a darn sight
not by a long chalk
not by a long shot
not by a long sight
not by any means
not care
not care a damn
not care a straw about
not care for
not care if you do
not care much for
not care to
not catching
not change
not charmed
not choke on
not come
not come amiss
not come near
not come off
not come to grips with
not come to the point
not come up to
not come up to expectation
not come up to par
not come up to scratch
not come up to the mark
not coming
not comparable
not comparable to
not compare
not compare with
not comply
not comprehensively
not concern
not condone
not conform
not connect with
not consent
not consider
not considerate
not considered
not convey anything
not cost anything
not count
not count the cost
not countenance
not counting
not crack a smile
not cricket
not cry over spilled milk
not cut it
not cut out for
not cut the mustard
not dare to show your face
not deep
not deep enough to float a match
not deny
not deserving belief
not destroy
not do
not do by halves
not do justice to
not done
not dry behind the ears
not easy
not eat
not either
not endanger
not endure
not enough
not enough to count
not enough to matter
not enter your head
not enter your mind
not equal to
not ever
not exhaustively
not exist
not expect
not expend
not expose yourself
not face up to
not fail
not fair
not fall for
not far
not far from
not far off
not fast
not feel like
not feel like anything
not figure
not fill the bill
not find it in your heart to
not find your way to first base
not firm
not fit for man or beast
not fit for mixed company
not fit to be seen
not fit to drink
not fit to eat
not flag
not flinch from
not following
not for attribution
not for love or money
not for publication
not for release
not for the life of me
not for the record
not for the world
not foresee
not forget
not found
not gag on
not get all choked up over
not get along
not get involved
not get involved in
not get off base
not get out of line
not get to first base
not give
not give a damn
not give a damn about
not give a dime a dozen for
not give a hoot
not give a hoot for
not give a shit
not give a shit for
not give a thought to
not give away
not give it a second thought
not give it another thought
not give two hoots for
not give up
not give up the ship
not go along with
not go for
not go off the deep end
not go on all fours with
not go out on a limb
not go too far
not good enough
not guesswork
not guilty
not hack it
not half
not half a chance
not half bad
not half of
not hard
not hard to look at
not hardly
not harken
not have
not have a Chinaman's chance
not have a chance
not have a dry thread
not have a leg to stand on
not have a moment to spare
not have a penny
not have a prayer
not have a sou
not have a word to say
not have all your buttons
not have all your marbles
not have any part of
not have anything to do with
not have idea one
not have it
not have it in one
not have the first idea
not have the foggiest
not have the heart
not have the heart to
not have the knack
not have the least idea
not have the remotest idea
not have the stomach for
not have the stomach to
not have time
not having all one's marbles
not having any
not hear a word
not hear of
not heed
not held against one
not held against you
not here
not hesitate
not hesitate to
not hold a candle to
not hold back
not hold it against one
not hold it against you
not hold together
not hold up
not hold up in the wash
not hold water
not hold with
not hold your breath
not if I can help it
not if I know it
not if you can help it
not implicate
not imply
not in donkey’s years
not in error
not in it
not in keeping with
not in residence
not in the habit of
not in the least
not in the mood
not in the picture
not in the same street with
not in your right mind
not included
not infrequently
not interfere
not involve
not involve yourself
not keep
not keep faith with
not kid yourself
not know
not know any better
not know any of the answers
not know beans
not know chalk from cheese
not know from A to B
not know from Adam
not know how
not know someone from Adam
not know the first thing about
not know the half of it
not know the score
not know the time of day
not know the way home
not know up from down
not know what it is all about
not know what o'clock it is
not know what to make of
not know what you are about
not know what's what
not know when to stop
not know when you are beaten
not know where you stand
not know which way is up
not know which way to turn
not know your interest
not know your own mind
not known
not kosher
not leave a leg to stand on
not let a word escape one
not let a word escape you
not let go
not let it get you down
not let it go further
not let out a peep
not lift a finger
not lift a hand
not like
not likely
not listen
not live to eat
not live up to expectation
not long ago
not look back
not look backward
not look for
not look like
not lose a moment
not lose sight of
not lying down
not make an issue of
not make any difference
not make head or tail of
not make heads or tails of
not make it
not make out
not make sense
not make static
not make the course
not make the grade
not make waves
not many
not matter
not matter to
not mean a thing
not measure up
not measure up to expectation
not measuring up
not meddle
not meddle with
not meriting belief
not mince words
not mind
not mind if you do
not mind your business
not miss a trick
not move a foot
not moving
not much
not much for looks
not much of a bargain
not much to boast of
not much to look at
not nearly
not new
not notice
not observe
not occur
not of the earth
not of this world
not often
not on speaking terms
not on the job
not on your life
not one
not open your mouth
not opinion
not oppose
not outstanding
not overlook a bet
not pass
not pass muster
not pay
not penetrate
not perfect
not permit
not permitted
not play fair
not possible
not present
not pretend to say
not proceed with
not proved
not proven
not pull fair
not pull your punches
not pursue with
not put a foot wrong
not put it past
not put up with
not qualify
not quite
not quite right
not rare
not reach
not reach to
not real
not realize your expectations
not really
not receive
not refuse
not register
not relate to
not relax
not relax your concern
not remember
not resemble
not resist
not respectable
not rest
not right
not right in the head
not rightly know
not ring any bells
not ring true
not rock the boat
not say 'boo'
not say a word
not see
not see an inch beyond your nose
not see beyond your nose
not see the wood for the trees
not seldom
not show up
not shrink from
not shut your eyes
not signify
not singular
not slacken
not sleep a wink
not so
not so bad
not so dumb
not so many
not so much
not so you could tell it
not spare the horses
not speak well of
not square
not square with
not stand a chance
not stand for
not stand on ceremony
not stand up
not standard
not stick your neck out
not stir
not stir a step
not stomach
not stop to think
not stretch
not strike your colors
not subject to call
not submit
not suffer
not suffice
not surprised
not swallow
not sweat it
not take
not take 'no' for an answer
not take care of
not take it as a joke
not take kindly to
not take lying down
not take upon yourself to say
not tamper
not tell
not tell apart
not tell one from the other
not that sort
not that you know
not that you would know it
not the half of
not the same
not the same thing at all
not the thing
not the type
not there
not think
not think much of
not think of
not to be believed
not to be borne
not to be changed
not to be compared
not to be compared with
not to be deflected
not to be depended on
not to be depended upon
not to be despised
not to be distinguished
not to be endured
not to be expected
not to be had
not to be had at any price
not to be had for love or money
not to be handled without gloves
not to be improved
not to be minuted
not to be mistaken
not to be moved
not to be overlooked
not to be quoted
not to be recommended
not to be relied on
not to be relied upon
not to be shaken
not to be sneezed at
not to be thought of
not to be trifled with
not to be trusted
not to get a thing out of
not to lift a hand
not to mention
not to mince the matter
not to mince words
not to the purpose
not to your taste
not tolerate
not too bad
not touch
not touch with a ten-foot pole
not trouble your head about
not trouble your head with
not trouble yourself with
not true
not true to
not turn a hair
not turn the other cheek
not turning over
not understand
not unlike
not up to
not up to expectation
not up to sample
not up to scratch
not up to snuff
not up to specification
not up to standard
not up to your hopes
not use
not use up
not used
not utter a word
not vital
not wait for an invitation
not wait to be asked
not want any part of
not war
not wash
not waste
not weaken
not well-founded
not what it is cracked up to be
not what you used to be
not willing to hear of
not with it
not within the memory of man
not words but action
not work
not worth a continental
not worth a damn
not worth a rap
not worth a thought
not worth a whoop
not worth having
not worth mentioning
not worth saving
not worth speaking of
not worth the candle
not worth the pains
not worth the powder and shot
not worthwhile
not write off
not yield an inch
not your cup of tea
not your sort
not yourself
not-
not-being
not-delivery
not-ephemeral
not-good
not-living
not-out
not-self
not-soul
not-under-command lights
nota bene
notaries public
notarized statement
notary public
notch block
notch-lobed
notched-leaved
note broker
note discounting
note down
note of alarm
note of explanation
note of hand
note paper
note row
note shaver
note shaving
note value
note well
note-blind
note-blindness
note-book
note-holder
note-paper
note-perfect
notes inegales
notes of a scale
nothing at all
nothing doing
nothing else
nothing else but
nothing if not critical
nothing in excess
nothing in particular
nothing like
nothing loath
nothing more
nothing of the kind
nothing of the sort
nothing off
nothing on earth
nothing special
nothing to boast of
nothing to brag about
nothing to do with
nothing to do with the case
nothing to hide
nothing to it
nothing to say about
nothing to signify
nothing to speak of
nothing to the left
nothing to the right
nothing to think twice about
nothing to write home about
nothing under the sun
nothing whatever
nothing worth speaking of
notice board
notions counter
nought beside
noughts and crosses
noughts-and-crosses
noun clause
noun determiner
noun equivalent
noun phrase
nourish in your bosom
nouveau riche
nouveau roman
nouveau roturier
nouveau-riche
nouvelle cuisine
nouvelle vague
nouvelles vagues
novel idea
novel maker
novel of character
novel of ideas
novel of incident
novel of manners
novel of sensibility
novel of the soil
novel reader
novel writer
novel-crazed
novel-making
novel-purchasing
novel-reading
novel-sick
novel-writing
novelty shop
novelty siding
novice point
novus homo
novus ordo seclorum
now and again
now and forever
now and then
now as previously
now or never
now that
now you're talking
now-a-day
now-a-days
now-accumulated
now-being
now-big
now-borne
now-dead
now-existing
now-fallen
now-full
now-known
now-lost
now-neglected
now-waning
nowhere near
nowhere to be found
nowhere to turn
nowhere-dense
noxious stench
ns-a-vis
nt wt
nth degree
nth power
nu-value
nub yarn
nubbin disease
nubecula major
nubecula minor
nuci-
nucle-
nuclear artillery
nuclear atom
nuclear bomb
nuclear chemistry
nuclear cross section
nuclear electron
nuclear energy
nuclear engineer
nuclear envelope
nuclear explosive
nuclear family
nuclear fission
nuclear force
nuclear fuel
nuclear furnace
nuclear fusion
nuclear isomer
nuclear isomerism
nuclear magnetic resonance
nuclear magneton
nuclear particle
nuclear physicist
nuclear physics
nuclear power
nuclear power plant
nuclear radiation
nuclear rays
nuclear reaction
nuclear reactor
nuclear resonance
nuclear submarine
nuclear warhead
nuclear weapons
nuclear-powered ship
nuclear-powered submarine
nucleic acid
nuclein base
nucleo-
nucleon number
nucleus counter
nude painting
nudi-
nudum pactum
nugi-
nuisance ground
nuisance tax
nuisance value
null and void
null hypothesis
null method
null sequence
null-manifold
nulla bona
nulla-nulla
nulli secundus
nullius filius
nullius juris
numb-fish
number admit
number among
number field
number five iron
number four iron
number four wood
number line
number lottery
number nine iron
number off
number one
number one iron
number one wood
number opera
number plate
number present
number seven iron
number six iron
number system
number theory
number three wood
number two
number two iron
number two wood
number work
numbered with the dead
numbers game
numbers pool
numbers racket
numbers runner
numdah rug
numeric data
numerical analysis
numerical aperture
numerical control
numerical forecasting
numerical weather prediction
numerous as the sands
numerous as the stars
nummulitic limestone
nun buoy
nun moth
nun's cloth
nun's fiddle
nun's veiling
nun-bird
nun-buoy
nunc dimittis
nuncupative will
nunny bag
nuptial apartment
nuptial bond
nuptial knot
nuptial mass
nuptial plumage
nuptial song
nuptial tie
nurse an idea
nurse balloon
nurse cell
nurse child
nurse crop
nurse frog
nurse mother
nurse resentment
nurse shark
nurse tree
nurse your revenge
nurse's aide
nurse-child
nurse-father
nurse-mother
nurse-tree
nursery cannon
nursery rhyme
nursery school
nursery school child
nursery slopes
nursery stakes
nursery stock
nursery tale
nurses' station
nursing bottle
nursing father
nursing foot
nursing home
nursing mother
nursing sister
nurture a belief
nurture a feeling
nurture an idea
nurture the hope
nut bone
nut bread
nut brown
nut buoy
nut coal
nut crab
nut dash
nut grass
nut margarine
nut oil
nut palm
nut pine
nut quad
nut rush
nut sedge
nut to crack
nut weevil
nut-brown
nut-crack
nut-cracker
nut-cracking
nut-gall
nut-gathering
nut-grass
nut-hook
nut-oil
nut-shaped
nut-shelling
nut-sweet
nut-tapper
nut-toasting
nut-tree
nut-weevil
nutgall oak
nutmeg apple
nutmeg bird
nutmeg butter
nutmeg family
nutmeg flower
nutmeg geranium
nutmeg grater
nutmeg hickory
nutmeg liver
nutmeg melon
nutmeg oil
nutmeg pigeon
nutrient ratio
nutritional disease
nutritive ratio
nutritive value
nuts about
nuts and bolts
nuts on
nuts over
nutty as a fruitcake
nutty-brown
nutty-flavored
nutty-looking
nux vomica
nycti-
nycto-
nylon carpeting
nylon string
nymph pink
o gauge
o k
o-
o-o
o-o-a-a
o-os
oak apple
oak bark
oak beauty
oak blight
oak brown
oak button
oak canker
oak chestnut
oak family
oak fern
oak fly
- oak fungus
- oak gall
- oak green
- oak leaf
- oak leaf cluster
- oak leather
- oak moss
- oak nut
- oak of Dodona
- oak pruner
- oak tag
- oak thistle
- oak toad
- oak tree
- oak veneer
- oak wart
- oak wilt
- oak-apple
- oak-beamed
- oak-boarded
- oak-clad
- oak-cleaving thunderbolts
- oak-covered
- oak-crested
- oak-crowned
- oak-leaf brown
- oak-leaf cluster
- oak-leaved
- oak-paneled
- oak-tanned
- oak-timbered
- oak-tree
- oak-tree money
- oak-wainscoted
- oar feather
- oar-footed
- oast house
- oast-house
- oast-houses
- oat bread
- oat cleaner
- oat field
- oat flour
- oat grass
- oat grinder
- oat huller
- oat kiln
- oat mill
oat sheller
oat thistle
oat thresher
oat-bearing
oat-cake
oat-crushing
oat-fed
oat-growing
oat-producing
oat-shaped
oaten reed
oath breaker
oath breaking
oath helper
oath of allegiance
oath of office
oath of secrecy
oath purgatory
oath suppletory
oath-bound
oath-breaking
oath-despising
oath-detesting
oath-making
oatlike bent grass
oatlike grass
oatmeal cookie
oatseed bird
ob-
obeah doctor
obesity diet
obey the rules
obey your impulse
obispo pine
obiter dicta
obiter dictum
object ball
object case
object glass
object in mind
object language
object lens
object lesson
object libido
object matter
object of art
object of compassion
object of note
object of pity
object of your affections
object program
object space
object speculum
object staff
object teaching
object to
object-glass
object-matter
objectionable person
objective behavior
objective case
objective complement
objective correlative
objective existence
objective genitive
objective idealism
objective point
objective predicate
objective prism
objective relativism
objective relativist
objective spirit
objective truth
objectively true
objectivn objectless preposition
objet d'art
objet d-art
objet trouv
objets d'art
oblate spheroid
oblation cloth
obligate yourself
obliged to
oblique angle
oblique case
oblique circular cone
oblique circular cylinder
oblique coordinates
oblique figure
oblique line
oblique motion
oblique narration
oblique sailing
oblique section
oblique speech
oblique-angled
oblique-fire
obliquity of the ecliptic
obliteration of inflammation
oblong-acuminate
oblong-cordate
oblong-cylindric
oblong-elliptic
oblong-elliptical
oblong-falcate
oblong-hastate
oblong-lanceolate
oblong-leaved
oblong-linear
oblong-ovate
oblong-ovoid
oblong-spatulate
oblong-triangular
oblong-wedgeshaped
obnoxious person
oboe d'amore
oboe da caccia
obscene language
obscene literature
obscure darkness
obscurem per obscurius
obsequent stream
observable behavior
observation balloon
observation car
observation flight
observation kite
observation mine
observation plane
observation platform
observation point
observation post
observation squadron
observation tower
observation train
observatory on the moon
observatory outlook
observe etiquette
observe protocol
observe the
observe the Golden Rule
observe the formalities
observe the proprieties
observe with a fine-toothed comb
obsess the mind
obsessed by
obsessional neurosis
obsessive compulsion
obsessive-compulsive neurosis
obsessive-compulsive reaction
obsidional coin
obsolete securities
obstacle course
obstacle race
obstacle racer
obstinate person
obstinate pride
obstruction light
obstruction to vision
obtain a divorce
obtain a return
obtain by fair means or foul
obtain under false pretenses
obtaining by deception
obtrude on
obtrude upon
obturator artery
obturator canal
obturator fascia
obturator membrane
obturator nerve
obturator vein
obtuse angle
obtuse bisectrix
obtuse triangle
obtuse-angled
obtuse-angled triangle
obtuse-angular
obtusi-
obvious clue
occasional cause
occasional chair
occasional licence
occasional poet
occasional table
occasional verse
occasioned by
occipital bone
occipital lobe
occipito-
occluded front
occult balance
occult meaning
occult phenomena
occult, the
occluding light
occluding screen
occupation bridge
occupation force
occupation franchise
occupation layer
occupation neurosis
occupation stamp
occupational disease
occupational hazard
occupational neurosis
occupational psychology
occupational school
occupational therapy
occupy a certain position
occupy a post
occupy the attention
occupy the chair
occupy the mind
occupy the mind with
occupy the thoughts
occupy the thoughts with
occupy time
occupy your time
occupy yourself
occupy yourself with
occur often
occur periodically
occur to
occur to your mind
ocean basin
ocean bed
ocean bottom
ocean breeze
ocean bug
ocean depths
ocean floor
ocean front
ocean green
ocean greyhound
ocean lane
ocean liner
ocean main
ocean marine insurance
ocean nymph
ocean of emptiness  
ocean perch  
ocean pout  
ocean racer  
ocean sea  
ocean spray  
ocean sunfish  
ocean trade  
ocean tramp  
ocean travel  
ocean trip  
ocean zone  
ocean-born  
ocean-borne  
ocean-carrying  
ocean-compassed  
ocean-flooded  
ocean-girdled  
ocean-going  
ocean-going tug  
ocean-guarded  
ocean-rocked  
ocean-severed  
ocean-skirted  
ocean-smelling  
ocean-spanning  
ocean-sundered  
ocean-wide  
oceanic island  
oceanographic research ship  
ocellated turkey  
ocelli-  
ocher brown  
ocher orange  
ocher red  
ocher-brown  
ocher-colored  
ocher-red  
ocher-yellow  
ochr-el-guerche  
ochro-  
oct-  
octa-  
octadecanoic acid  
octagon scale  
octahedron group  
octal base  
octal notation
odd-shaped
odd-sounding
odd-thinking
odd-toed
odds and ends
odds and sods
odds or evens
odds-on
odds-on chance
odium theologicum
odont-
odonto-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
oeil-de-boeuf
oeils-de-boeuf
oenanthic ester
oenanthic ether
oeno-
oesophago-
oestrous cycle
of Nassau
of Preston
of a certain age
of a certainty
of a kind
of a low order of importance
of a mind to
of a piece
of a place
of a size
of a sort
of a sudden
of a truth
of age
of all descriptions
of all kinds
of all manner of colors
of all misery
of all shapes
of all sorts
of all the colors of the rainbow
of all things
of all types
of all work
of another sort
of any description
of any kind
of any sort
of bad faith
of behavior
of choice
of cleanly habits
of common ancestry
of common descent
of common occurrence
of common source
of common stock
of concern
of concernment
of consequence
of consummate art
of counsel
of course
of design
of different orders
of doubt
of easy virtue
of evil portent
of fatal omen
of feeling
of few words
of fiction
of full age
of general application
of general utility
of gentle blood
of good breed
of good cheer
of good comfort
of good credit
of good hope
of good omen
of good physique
of gourmet quality
of great cost
of great price
of happy portent
of heart
of help
of ill omen
of importance
of interest
of itself
of kin
of language
of late
of like mind
of little brain
of little consequence
of little importance
of long duration
of long standing
of loose morals
of many words
of mark
of marriageable age
of moment
of necessity
of no account
of no avail
of no concern
of no consequence
of no earthly use
of no effect
of no force
of no great importance
of no importance
of no matter
of no purpose
of no significance
of no use
of note
of old
of one accord
of one mind
of one piece
of opposite polarity
of other times
of powerful physique
of preference
of promise
of quality
of rank
of record
of ripe age
of sentiment
of service
of set purpose
of significance
of small importance
of small number
of sorts
of soul
of sound mind
of that ilk
of that kind
of that sort
of the best
of the best sort
of the blood
of the clock
of the cloth
of the dead
of the deepest
of the deepest dye
of the earth
of the essence
of the faith
of the first magnitude
of the first rank
of the first water
of the folk
of the highest type
of the old school
of the same hue
of the same kidney
of the same mind
of the same stripe
of the true faith
of the war party
of two minds
of unsound mind
of use
of value
of vital importance
of weight
of yesterday
of yore
of your own
of your own accord
of your own choice
of your own free will
of your own volition
of-
of-door
of-fact
of-the-moment
off Broadway
off and on
off base
off chance
off colour
off cut
off day
off duty
off guard
off in the clouds
off in the upper story
off in your reckoning
off key
off limits
off line
off market
off note
off of
off on
off pat
off plumb
off season
off side
off soundings
off stage
off stump
off the air
off the beam
off the beaten track
off the course
off the cuff
off the field
off the ground
off the heading
off the hinges
off the hip
off the hook
off the old block
off the rails
off the record
off the reel
off the shelf
off the subject
off the top of the head
off the top of your head
off the track
off the trolley
off the vertical
off the wall
off the wind
off-license
off-limits
off-line
off-load
off-loading
off-look
off-lying
off-mike
off-off-Broadway
off-peak
off-pitch
off-put
off-putting
off-reckoning
off-season
off-setting
off-shaving
off-shed
off-sider
off-sloping
off-sorts
off-stage
off-standing
off-street
off-taking
off-the-cuff
off-the-face
off-the-peg
off-the-record
off-the-wall
off-thrown
off-time
off-tone
off-turning
off-wheel
off-wheeler
off-white
off-year
off-year election
offend against the law
offend the ear
offend the eye
offend the nostrils
offense to the nostrils
offensive lineman
offensive load
offensive odor
offensive strategy
offensive to ears polite
offensive to gentle ears
offensive warfare
offer a good prospect
offer a prayer
offer a resolution
offer as a plea
offer at a bargain
offer bait to
offer excuse for
offer for sale
offer in defense
offer in exchange
offer itself
offer of marriage
offer of parley
offer price
offer resistance
offer sacrifice
offer thanks
offer the expectation
offer to buy
offer to the public
offer up
offer up an oblation
offer your compliments
offer your congratulations
offer your felicitations
offer yourself
offered price
offering no delight
offering price
offertory hymn
offertory sentence
offertory veil
offhand position
offhand shot
official residence
office bearer
office block
office boy
office building
office copy
office fixture
office force
office found
office furniture
office girl
office hours
office hunter
office lawyer
office lock
office manager
office practice
office premium
office seeker
office temporary
office worker
office-bearer
office-block ballot
office-boy
office-seeking
officer of arms
officer of the court
officer of the day
officer of the deck
officer of the guard
officer of the watch
officer plant
officer tree
officers' country
official count
official document
official jargon
official journal
official language
official oath
official scorer
official secrecy
official spokesman
officious will
offscourings of society
offscum of society
offset line
offset lithography
offset lithography press
offset sheet
offset staff
offset-litho
offshore dock
offshore rights
offspring of Heav'n firstborn
offtrack betting
oft-named
oft-repeated
oft-time
oft-times
often enough
often offensive
ogee arch
ogee doorway
ogle at
oh boy
oh yes
ohm-ammeter
ohm-ampere system
ohm-mile
ohmic resistance
oil and vinegar
oil asphalt
oil bath
oil beetle
oil box
oil burner
oil bushing
oil cake
oil camp
oil can
oil cellar
oil circuit breaker
oil color
oil column
oil cup
oil derrick
oil distiller
oil drill
oil drum
oil engine
oil extractor
oil feeder
oil field
oil fuel
oil furnace
oil gas
oil gauge
oil gilding
oil gland
oil green
oil groove
oil gun
oil heat
oil heater
oil heating
oil lamp
oil land
oil meal
oil mill
oil milling
oil mold
oil nut
oil of almonds
oil of ben
oil of cade
oil of catechumens
oil of mirbane
oil of myrbane
oil of palms
oil of the sick
oil of turpentine
oil of vitriol
oil of wintergreen
oil omphacine
oil paint
oil painter
oil painting
oil paints
oil palm
oil pan
oil plant
oil press
oil pulp
oil refiner
oil refinery
oil rig
oil ring
oil rock
oil sand
oil shale
oil shark
oil sheet
oil silk
oil slick
oil spot
oil stove
oil switch
oil tanker
oil tanning
oil tar
oil the tongue
oil tree
oil tube
oil varnish
oil well
oil whetstone
oil yellow
oil-bag
oil-base paint
oil-bearing
oil-break switch
oil-bright
oil-burning
oil-carrying
oil-colorist
oil-colour
oil-containing
oil-cooled
oil-dispensing
oil-distributing
oil-driven
oil-electric
oil-fed
oil-filled
oil-finding
oil-finished
oil-fired
oil-forming
oil-fueled
oil-gas tar
oil-gilding
oil-harden
oil-hardened steel
oil-hardening
oil-heat
oil-heated
oil-insulated
oil-laden
oil-lit
oil-mill
oil-nut
oil-plant
oil-producing
oil-pumping
oil-refining
oil-regulating
oil-saving
oil-seal
oil-secretion
oil-secretion
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oicloth knife
oiled silk
oilspot glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oiticica oil
oka cheese
okey-doke
okle-dokle
old Adam
old age
old age pension
old amethyst
old as Adam
old as Methuselah
old as history
old as the hills
old as time
old bach
old bachelor
old bag
old battle-ax
old believer
old bird
old blue
old boy
old boy network
old bulgarian
old campaigner
old catholic
old cedar
old chap
old chat
old christmas
old church slavonic
old clothes
old clothes man
old clothing
old codger
old country
old country, the
old covenant
old crock
old crony
old dame
old days
old dodo
old dog
old duffer
old english
old english sheepdog
old enough to know better
old face
old fart
old fellow
old field
old fogey
old fogy
old folks’ home
old french
old fud
old fustic
old geezer
old gent
old gentleman
old girl
old glory
old goat
old gold
old granny
old guard
old hand
old hat
old hen
old high german
old ionic
old ivory
old joke
old lady
old liner
old maid
old man
old man’s beard
old master
old moon
old nick
old nobility
old norse
old order
old paper
old party
old person
old poop
old pro
old prussian
old red
old river
old rose
old salt
old saw
old saxon
old school
old school tie
old sea dog
old sledge
old soldier
old soldiers’ home
old song
old squaw
old stager
old story
old style
old talk
old testament
old times
old trot
old turkey
old welsh
old wheeze
old wife
old witch grass
old wives’ tale
old woman
old world
old-age
old-age and survivors insurance
old-age assistance
old-age insurance
old-age pension
old-age pensioner
old-aged
old-bachelorish
old-bachelorship
old-boyish
old-clothesman
old-country
old-established
old-faced
old-fangled
old-farrand
old-farrandlike
old-fashionable
old-fashionably
old-fashionableness
old-field birch
old-field dove
old-field lark
old-field pine
old-fogeydom
old-fogeyish
old-fogy
old-fogydom
old-fogyish
old-fogyishness
old-fogyism
old-gathered
old-gentlemanly
old-gold
old-growing
old-ivory
old-ladyhood
old-line
old-line company
old-liner
old-looking
old-maid
old-maidenish
old-maidish
old-maidishness
old-maidism
old-man cactus
old-man fern
old-man's-beard
old-new
old-rose
old-school
old-sighted
old-sightedness
old-squaw
old-standing
old-style
old-time
country music
religion
timer
timey
music
timeliness
timy
wifely
music
womanish
womanishness
womanism
womanly
world
worldish
worldism
worldliness
worldly
young
wifely
wifish
womanish
womanishness
womanism
womanly
oldest profession
ole-
derern
d scale
er family
dant
d series
cid
gear
d
doil
d strut
der
yl group
deral
d alcohol
ory area
ory bulb
ory cell
ory nerve
ory nerves
ory organ
ory pit
ory sense
ory tract
ig-
oligo-
olinda bug
olivaceo-
olive acanthus
olive bark
olive berry
olive branch
olive brown
olive crown
olive drab
olive drabs
olive dun
olive family
olive fly
olive gnat
olive gray
olive green
olive gum
olive knot
olive mangrove
olive nut
olive oil
olive ore
olive plant
olive plum
olive quill
olive scab
olive scale
olive shell
olive tubercle
olive yellow
olive-backed
olive-backed thrush
olive-bordered
olive-branch
olive-brown
olive-cheeked
olive-clad
olive-colored
olive-complexioned
olive-drab
olive-drab shirt
olive-green
olive-greenish
olive-growing
olive-kernel oil
olive-oil castile soap
olive-pale
olive-shaded
olive-shadowed
olive-sided
olive-sided flycatcher
olive-skinned
olive-tree agaric
olive-wood
olivine-andesite
olivine-basalt
olla podrida
olla-podrida
olympian games
olympic games
om mani padme hum
omander wood
ombres chinoises
ombro-
ome next
omega minus
omega particle
omni mane
omni-
omni-ignorant
omnia vincit amor
omnibus bill
omnibus box
omnibus clause
omnibus driver
omnibus train
omnibus volume
omnibus-driving
omnibus-fashion
omnibus-riding
omnidirectional antenna
omnidirectional microphone
omnidirectional range
omnipotent ruler
ornament gatherum
ornium-gatherum
ornium-gatherums
omo-hyoid
omphalo-
on Easy Street
on Queer Street
on a beam
on a beat
on a bed of roses
on a bowline
on a broad reach
on a cloud
on a declining scale
on a first-name basis
on a footing
on a good footing
on a large scale
on a leash
on a lee shore
on a level
on a line
on a minuscule scale
on a par
on a reach
on a rock
on a slant
on a small scale
on a stretch
on a string
on a sudden
on a sudden impulse
on a treadmill
on account
on account of
on account of this
on account of what
on account of which
on all accounts
on all counts
on all fours
on all fours with
on all hands
on all sides
on all tongues
on amicable terms
on an easy bowline
on an even keel
on an infinitesimal scale
on and off
on and on
on approval
on bad terms
on bail
on balance
on base
on bedrock
on behalf of
on bended knee
on board
on board ship
on budget terms
on call
on center
on chosen
on cloud nine
on condition
on condition that
on consignment
on credit
on deck
on demand
on deposit
on dit
on divers occasions
on draft
on dry land
on duty
on eagle's wings
on earth
on easy terms
on edge
on end
on equal terms
on even ground
on even terms
on every hand
on every side
on everyone's lips
on everyone's tongue
on faith
on familiar terms
on file
on fire
on foot
on footback
on friendly terms
on furlough
on good terms
on guard
on hand
on hands and knees
on her beam-ends
on her own bottom
on high
on hire
on holiday
on horseback
on ice
on impulse
on instinct
on intimate terms
on its beam-ends
on its side
on key
on land
on leash
on leave
on line
on live
on loan
on no account
on no condition
on no occasion
on occasion
on offer
on one
on one occasion
on one side
on one's beam-ends
on one's hands and knees
on one's last legs
on one's uppers
on order
on pain of
on paper
on parole
on passage
on penalty of
on pension
on pins and needles
on principle
on probation
on purpose
on reconsideration
on record
on relief
on route to
on sabbatical leave
on schedule
on second thought
on security
on shank's mare
on shank's pony
on shipboard
on ships
on short commons
on short notice
on side
on sight
on slippery ground
on solid ground
on soundings
on speaking terms
on stilts
on stream
on sufferance
on sure ground
on tap
on tenterhooks
on terms
on terms of equality
on terra firma
on that account
on that ground
on that occasion
on the
on the Book
on the agenda
on the air
on the alert
on the anvil
on the anxious bench
on the anxious seat
on the assumption that
on the attack
on the average
on the back of
on the ball
on the bare possibility
on the barricades
on the bash
on the beach
on the beam
on the beam’s ends
on the beam-ends
on the beat
on the beaten track
on the bench
on the berth
on the bias
on the blink
on the block
on the boards
on the books
on the borderline
on the bounce
on the brain
on the brink
on the brink of
on the bum
on the button
on the calendar
on the cards
on the carpet
on the chance
on the cheap
on the coattails of
on the confines of
on the contrary
on the course
on the crest
on the crest of the wave
on the critical list
on the cuff
on the decline
on the defensive
on the descendant
on the docket
on the dole
on the dot
on the double
on the double-quick
on the downgrade
on the downward track
on the earth
on the edge
on the edge of
on the edge of tears
on the eve of
on the evidence
on the face of
on the face of it
on the face of the earth
on the face of the globe
on the fence
on the fire
on the flank of
on the floor
on the fly
on the fritz
on the gad
on the go
on the good side of
on the ground
on the heading
on the heel and toe
on the high road
on the high road to
on the high seas
on the high side
on the hip
on the hoof
on the hook
on the hop
on the horizon
on the horns of a dilemma
on the house
on the in with
on the increase
on the instant
on the jar
on the job
on the jump
on the knees of the gods
on the knocker
on the lam
on the lap of the gods
on the left
on the level
on the lift
on the lines of
on the lookout
on the lookout for
on the loose
on the low side
on the make
on the march
on the mark
on the market
on the mend
on the minute
on the model of
on the money
on the move
on the nail
on the nod
on the nose
on the off chance
on the offensive
on the order of
on the other hand
on the outs
on the outs with
on the outside
on the pad
on the parish
on the part of
on the peak
on the pinnacle
on the point
on the point of
on the present occasion
on the qt
on the quiet
on the rack
on the ragged edge
on the razor's edge
on the rebound
on the receiving end
on the return
on the right
on the right scent
on the right side of
on the right track
on the rise
on the road
on the road to
on the rocks
on the run
on the safe side
on the same footing
on the same level
on the same old round
on the same plane
on the scent of
on the score of
on the shady side
on the shady side of
on the shelf
on the shelves
on the shoulders of
on the sick list
on the side
on the skids
on the skirts of
on the sly
on the spot
on the spur of the moment
on the square
on the stage
on the stick
on the stocks
on the straight
on the streets
on the strength of
on the subject of
on the summit
on the supposition that
on the surface
on the table
on the take
on the tapis
on the throne
on the tip of your tongue
on the top
on the town
on the track of
on the trail of
on the tramp
on the turn
on the up-and-up
on the upbeat
on the upgrade
on the upswing
on the verge
on the verge of
on the wagon
on the wane
on the watch
on the watch for
on the water cart
on the water wagon
on the way
on the way to
on the whole
on the wind
on the wing
on the wrong
on the wrong tack
on thin ice
on this account
on this side of the grave
on tick
on time
on tippytoe
on tiptoe
on to
on top
on top of
on top of the heap
on top of the roost
on top of the world
on tour
on trial
on trust
on vacation
on velvet
on view
on visiting terms
on welfare
on what account
on what occasion
on wheels
on which
on which occasion
on your
on your back
on your beam-ends
on your belly
on your bended knees
on your coattails
on your deathbed
on your feet
on your guard
on your hands
on your head
on your high horse
on your hind legs
on your hunkers
on your knees
on your last legs
on your legs
on your mark
on your marrowbones
on your mettle
on your mind
on your nose
on your own
on your own account
on your own ground
on your own hook
on your own initiative
on your own responsibility
on your own say-so
on your own time
on your shitlist
on your toes
on your travels
on your uppers
on your way
on your word
on your word of honor
on-
on-again-off-again
on-board
on-coming
on-ding
on-dit
on-drive
on-glaze
on-glide
on-go
on-going
on-hit
on-limits
on-line
on-off switch
on-stage
on-stream
on-the-job training
once again
once and again
once and for all
once and for always
once and no more
once for all
once in a blue moon
once in a coon's age
once in a thousand years
once in a while
once more
once or twice
once over lightly
once pinnate
once removed
once upon a time
once-accented
once-born
once-over
once-run
one up
one up on
one voice
one vote
one's adieus
one's all
one's ancestors
one's best
one's best effort
one's best endeavor
one's betters
one's blind side
one's crowd
one's damndest
one's darndest
one's days are numbered
one's disposal
one's doom is sealed
one's due
one's fathers
one's heels
one's hour is come
one's level best
one's mouth
one's move
one's native ground
one's native heath
one's native place
one's number is up
one's own choice
one's own discretion
one's own initiative
one's own man
one's own sweet time
one's own will
one's race is run
one's say
one's set
one's turn
one's two cents' worth
one's utmost
one's worth
one-a-cat
one-act
one-acter
one-and-a-half
one-armed
one-armed bandit
one-base hit
one-berry
one-blade
one-bladed
one-buttoned
one-by-one
one-celled
one-chambered
one-class
one-classer
one-colored
one-crop
one-cusped
one-day
one-decker
one-dimensional
one-dimensional wave
one-dollar
one-eared
one-egg
one-eighty
one-eyed
one-eyedness
one-finned
one-flowered
one-foot
one-footed
one-fourth
one-grained
one-hand
one-handed
one-handedness
one-hearted
one-hoofed
one-horned
one-horse
one-horse town
one-humped
one-hundred-fifty
one-hundred-percenter
one-hundred-percentism
one-ideaed
one-inch
one-jointed
one-layered
one-leaf
one-leaved
one-legged
one-leggedness
one-letter
one-line
one-line octave
one-lung
one-lunged
one-lunger
one-man
one-man rule
one-many
one-minute
one-nerved
one-night
one-night stand
one-nighter
one-oclock
one-off
one-one
one-party rule
one-party system
one-petaled
one-piece
one-piece suit
one-piecer
one-pipe
one-pipe furnace
one-point
one-point perspective
one-pope
one-pound
one-pounder
one-price
one-quarter
one-rail
one-reeler
one-ribbed
one-roomed
one-seater
one-seeded
one-sepaled
one-septate
one-shot
one-sided
one-sidedly
one-sidedness
one-spot
one-star general
one-step
one-step rocket
one-storied
one-story
one-striper
one-term
one-third
one-time
one-to-one
one-toed
one-track
one-track mind
one-two
one-two punch
one-up
one-upmanship
one-valued
one-way
one-way communication
one-way ticket
one-way trip
one-windowed
one-winged
one-word
one-year
oneiro-
one's self
onga-onga
onglette file
onion couch
onion dome
onion flute
onion fly
onion foot
onion louse
onion maggot
onion mildew
onion red
onion roll
onion salt
onion sauce
onion set
onion smudge
onion smut
onion structure
onion twitch
onion-eyed
onionskin pink
oniro-
onium compound
onization potential
only a few
only a step
only choice
only have eyes for
only human
only if
only just
only not
only now and then
only occasionally
only once
only think
only too
only when necessary
only when the spirit moves
only yesterday
only-begotten
onomato-
onomatopoeic word
onshore breeze
ont-
onto-
onological argument
ontological proof
ontrary to expectation
onus probandi
onward and upward
onward course
onyx marble
oo-
oo-la-la
ooblastema filament
oop cit
ooze leather
ooze out
op art
op artist
op cit
op-
opal blue
opal glass
opal gray
opal matrix
opal-tinted
opaline green
opaque color
opaque context
opaque projector
open Pandora's box
open a can of worms
open a show
open a show cold
open account
open aerial
open air
open an account with
open an offensive
open and aboveboard
open arms
open as day
open book
open chain
open circuit
open city
open classroom school
open cluster
open communion
open conflict
open country
open couplet
open court
open cut
open day
open discussion
open door
open enemy
open enrollment
open field
open fire
open for discussion
open forum
open game
open hand
open hand knot
open heart
open her up
open hostilities
open house
open housing
open into
open juncture
open letter
open mandate
open market
open market operations
open mind
open one's mouth
open order
open policy
open position
open primary
open quarrel
open question
open road, the
open rupture
open secret
open sentence
open sequence
open sesame
open shop
open sight
open space
open sphere
open stock
open string
open syllable
open system
open the
open the door to
open the draft
open the eyes
open the eyes to
open the floodgates
open the light
open the lock
open the mind
open the possibility of
open the purse
open the sluices
open the throttle
open the way
open the way for
open throttle
open time
open to
open to all
open to criticism
open to doubt
open to error
open to question
open to reproach
open to solution
open to suspicion
open to the public
open to view
open trailer
open union
open up
open up on
open up the possibility of
open verdict
open waggon
open war
open warfare
open wound
open your big fat mouth
open your big mouth
open your eyes
open your eyes to
open your lips
open your mind to
open your mouth
open-air
open-air theater
open-airish
open-airishness
open-airism
open-airness
open-and-shut
open-and-shut case
open-armed
open-armedly
open-back
open-back press
open-backed
open-bill
open-bladed
open-breasted
open-caisson
open-chested
open-circuit
open-coil
open-countenanced
open-crib
open-cribbed
open-door
open-door policy
open-doored
open-eared
open-end
open-end bond
open-end fund
open-end investment company
open-end wrench
open-ended
open-endedness
open-eyed
open-eyedly
open-face
open-face sandwich
open-faced
open-field
open-fire
open-flowered
open-frame girder
open-front
open-fronted
open-frontedness
open-gaited
open-grained
open-handed
open-handedly
open-headed
open-heart surgery
open-hearted
open-heartedly
open-heartedness
open-hearth
open-hearth furnace
open-hearth process
open-hearthed
open-housed
open-housedness
open-housing
open-joint
open-jointed
open-kettle
open-kneed
open-letter
open-letter proof
open-lined
open-market
open-minded
open-mindedly
open-mindedness
open-mouthed
open-mouthedly
open-mouthedness
operating expenses
operating room
operating speed
operating table
operating theatre
operational gain
operational purpose
operational research
operations research
operations room
operative dentist
operative dentistry
operative surgeon
operative surgery
operator gene
operculi-
opere buffe
opere citato
opere serie
ophio-
ophthalm-
ophthalmia neonatorum
ophthalmo-
ophthalmo-reaction
opiate addiction
opinion poll
opinion sampling
opinion survey
opinion-sampler
opistho-
opium den
opium drinker
opium eater
opium poisoning
opium poppy
opium smoker
opium taker
opium-drinking
opium-drowsed
opium-eating
opium-shattered
opium-smoking
opium-taking
opossum mouse
opossum shrimp
opossum tree
opossum wood
opponent colors theory
opportunity cost
oppose change
opposed to
opposed to change
opposed-piston engine
opposing party
opposite as black and white
opposite as day and night
opposite as fire and water
opposite as light and darkness
opposite as the poles
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
opposition party
opposition to change
opposition voice
oppression of spirit
opera bouffe
opera comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
opt out
opt out of society
optic axis
optic chiasm
optic disc
optic disk
optic nerve
optic neuritis
optic thalamus
optical activity
optical air mass
optical altimeter
optical bench
optical character reader
optical crown
optical density
optical double star
optical flint
optical glass
optical illusion
optical instrument
optical instruments
optical isomer
optical isomerism
optical maser
optical microscope
optical path
optical physics
optical pyrometer
optical rotation
optical scanning
optical telescope
optical tooling
optically active
optically inactive
optico-
optimum capacity
optimum programming
optional bond
optional dividend
optional primary
optional referendum
opto-
opus araneum
opus consutum
opus incertum
opus isodomum
opus pectineum
opus pseudoisodomum
opus reticulatum
or Harry
or buts
or circuit
or else
or ever
or not
or steal
or the instrument evidencing
or-
ora pro nobis
oracle of Dodona
oral cavity
oral communication
oral contraceptive
oral evidence
oral examination
oral groove
oral history
oral interpretation
oral method
oral poetry
oral society
oral surgery
oral-genital stimulation
orang-outang
orang-utan
orange III
orange aphid
orange aurora
orange basketworm
orange berry
orange blossom
orange chipper
orange chrome yellow
orange chromide
orange coneflower
orange daisy
orange flower water
orange grower
orange gum
orange hawkweed
orange juice
orange lead
orange leaf rust
orange lily
orange madder
orange maggot
orange marmalade
orange melon
orange milkweed
orange milkwort
orange mineral
orange ocher
orange orchard
orange peel
orange peel reflector
orange peeler
orange pekoe
orange quince
orange quit
orange rust
orange scab
orange scale
orange spoon
orange stick
orange sulfur
orange sulphur
orange sunflower
orange swallowwort
orange tip
orange vermilion
orange water
orange wife
orange wine
orange-blossom
orange-colored
orange-crowned
orange-eared
orange-eye butterfly bush
orange-fleshed
orange-flower
orange-flowered
orange-headed
orange-hued
orange-leaf
orange-leaf beetle
orange-peel bucket
orange-red
orange-rufous
orange-shaped
orange-sized
orange-striped
orange-tailed
orange-tawny
orange-throated
orange-tip
orange-tipped
orange-tree
orange-winged
orange-yellow
orate fratres
oratio obliqua
oratio recta
oratorio society
orb of day
orb of night
orb weaver
orbiculato-
orbit sweeper
orbit the earth
orbit the moon
orbital angular momentum
orbital electron
orbital index
orbital quantum number
orbital velocity
orbiting geophysical observatory
orbiting observatory
orbiting solar observatory
orbito-
orchard bush
orchard fruit
orchard grass
orchard heater
orchard heating
orchard house
orchard oriole
orchard valve
orchella weed
orchestra bells
orchestra circle
orchestra leader
orchestra pit
orchestral bells
orchestral horn
orchestral musician
orchestral score
orchid family
orchid fly
orchid peat
orchid pink
orchid rose
orchid tree
orchido-
orchilla weed
ordeal bark
ordeal bean
ordeal by battle
ordeal by fire
ordeal by lots
ordeal by water
ordeal root
ordeal tree
order about
order arms
order around
order bill of lading
ordnance rocket
ordnance sergeant
ore bed
ore body
ore bridge
ore car
ore charger
ore chute
ore digger
ore dressing
ore handler
ore hearth
ore mill
ore miner
ore process
ore rotundo
ore shoot
ore smelter
ore weigher
ore-bearing
ore-buying
ore-crushing
ore-extracting
ore-forming
ore-handling
ore-hoisting
ore-mining
ore-milling
ore-roasting
ore-smelting
ore-washing
ore-weed
oregon grape
orey-eyed
organ beater
organ blower
organ builder
organ building
organ cactus
organ coral
organ desk
organ erector
organ fish
organ gallery
organ grinder
organ gun
organ harmonium
organ loft
organ maker
organ manual
organ of Corti
organ of taste
organ of thought
organ of vision
organ pipe
organ player
organ point
organ screen
organ stop
organ swell
organ transplant
organ transplantation
organ whistle
organ-
organ-blowing
organ-grinder
organ-piano
organ-pipe
organ-pipe cactus
organ-pipe coral
organic being
organic chemical
organic chemist
organic chemistry
organic chlorine
organic disease
organic electricity
organic fertilizer
organic matter
organic mechanism
organic mechanist
organic nature
organic phosphate insecticide
organic psychosis
organic remains
organic structure
organic unity
organization insignia
organization man
organized crime
organized ferment
organized labor
organized matter
organized militia
organized reserves
organo-
orpiment red
orpiment yellow
orpine family
orra man
orris oil
orth-
ortho-
ortho-cousin
ortho-orsellinic
ortho-toluidine
ortho-xylene
orthoboric acid
orthochromatic film
orthoclase-basalt
orthoclase-gabbro
orthodox Christian
orthodox judaism
orthoformic acid
orthogonal matrix
orthogonal projection
orthogonal trajectory
orthographic projection
orthomorphic projection
orthopedic surgery
orthophosphoric acid
orthophosphorous acid
orthoptic exercises
ortolan bunting
orycto-
os magnum
osage orange
oscheo-
oscillating current
oscillating engine
oscillating universe theory
oscillation circuit
oscillation constant
oscillation engine
oscillation number
oscillation transformer
oscillation-cylinder engine
oscillator relay actuator
oscillator relay control
oscillatory behavior
oscillatory discharge
oscillograph data
oscillograph recorder
oscilloscope tube
other from
other half
other self
other side
other side of the coin
other side of the picture
other some
other than
other things being equal
other world
other-directed
other-directedness
other-direction
other-group
other-self
otic vesicle
otitis externa
otitis interna
otitis media
otium cum dignitate
oto-
ottava alta
ottava bassa
ottava rima
otter board
otter brown
otter canoe
otter gear
otter hound
otter raft
otter sheep
otter shell
otter shrew
otter trawl
ouabe oil
oufs a la coque
oufs brouilles
oufs poches
oufs sur le plat
ought to
ouija board
ounce apothecaries'
ounce avoirdupois
ounce metal
ounce troy
our account of ourselves
our father
our times
outrang-outang
ouran-
ouster le main
ouster-le-main
out ahead
out and away
out at elbows
out at heels
out at the elbows
out at the heels
out board
out cold
out for
out for bear
out from under
out front
out guide
out in front
out in left field
out in the cold
out in the open
out in your reckoning
out loud
out of
out of a clear blue sky
out of a clear sky
out of a job
out of accord
out of action
out of all bounds
out of all proportion
out of all reason
out of bounds
out of breath
out of character
out of commission
out of conceit with
out of condition
out of contact
out of control
out of countenance
out of court
out of danger
out of date
out of debt
out of doors
out of earreach
out of earshot
out of employ
out of fashion
out of favor
out of focus
out of form
out of funds
out of gear
out of hand
out of harm's reach
out of harm's way
out of harness
out of hearing
out of humor
out of it
out of its element
out of joint
out of keeping
out of kelter
out of kilter
out of line
out of line with
out of luck
out of measure
out of order
out of phase
out of pitch
out of place
out of play
out of plumb
out of pocket
out of practice
out of print
out of proportion
out of question
out of range
out of reach
out of repair
out of season
out of shape
out of sight
out of sight out of mind
out of sorts
out of soundings
out of spirits
out of square
out of step
out of stock
out of style
out of sympathy
out of temper
out of the battle
out of the blue
out of the common
out of the habit of
out of the meshes
out of the mind
out of the ordinary
out of the pale
out of the perpendicular
out of the picture
out of the question
out of the running
out of the sphere of
out of the toils
out of the way
out of the woods
out of the world
out of this
out of this world
out of time
out of tone
out of touch
out of training
out of trim
out of true
out of tune
out of tune and harsh
out of turn
out of use
out of whack
out of whole cloth
out of wind
out of work
out of working order
out of your bearings
out of your control
out of your depth
out of your element
out of your hands
out of your head
out of your league
out of your mind
out of your mind with fear
out of your misery
out of your power
out of your reckoning
out of your senses
out of your skull
out of your teens
out of your wits
out on a limb
out on a rail
out on strike
out sister
out the window
out to
out tray
out with
out with it
out-
out-Herod
out-and-out
out-and-out lie
out-and-outer
out-argue
out-ask
out-babble
out-boarder
out-bound
out-bowed
out-brag
out-building
out-burn
out-by
out-cargo
out-clearer
out-clearing
out-college
out-country
out-craft
out-door
out-field
out-fielder
out-group
out-guard
out-herod
out-herod Herod
out-kneed
out-migrant
out-migrate
out-migration
out-of
out-of-bounds
out-of-center
out-top
out-travel
out-voter
out-wall
out-worker
outa sight
outboard cruiser
outboard motor
outboard motorboat
outboard profile
outburst of anger
outburst of laughter
outcast of society
outcrop mine
outdoor theater
outer atmosphere
outer automorphism
outer bar
outer barrister
outer ear
outer face
outer garments
outer jib
outer layer
outer planet
outer product
outer side
outer skin
outer space
outer station
outer-directed
outermost reaches of space
outfit car
outing flannel
outlaw strike
outlet box
outlet plate
outline stitch
outlook over
outlyimg picket
outpatient clinic
outpost of advancing day
outpost province
output conductance
output current
output data
output indicator
output lag
outward-flow turbine
ov-
oval chuck
oval compass
oval file
oval kumquat
oval window
oval-arched
oval-berried
oval-bodied
oval-bored
oval-faced
oval-figured
oval-headed
oval-lanceolate
oval-leaved
oval-shaped
oval-truncate
oval-visaged
ovals of Cassini
ovario-
ovate-acuminate
ovate-cordate
ovate-cuneate
ovate-cylindraceous
ovate-cylindrical
ovate-deltoid
ovate-ellipsoidal
ovate-elliptic
ovate-lanceolate
ovate-leaved
ovate-oblong
ovate-orbicular
ovate-rotundate
ovate-serrate
ovate-serrated
ovate-subulate
ovate-triangular
ovato-
oven builder
oven furnace
oven thermometer
oven tit
oven wood
oven-bake
oven-baked
oven-bird
oven-dried
oven-dry
oven-ready
oven-shaped
over a barrel
over again
over against
over and above
over and over
over and over again
over head and ears
over head and ears in
over head and ears in love
over my dead body
over the board
over the counter
over the hill
over the hills and far away
over the hump
over the side
over the top
over the water
over there
over your head
over-
over-abound
over-age
over-all
over-and-over stitch
over-anxious
over-arm
over-bold
over-capitalize
over-caution
over-cautious
over-confident
over-correct
over-counter
over-credulous
over-curious
over-dear
over-deck
over-delicate
over-develop
over-discharge
over-eager
over-earnest
over-estimate
over-excite
over-exert
over-expose
over-feed
over-gear
over-greedy
over-hard
over-hasty
over-indulge
over-inform
over-issue
over-king
over-labour
over-liberal
over-lip
over-long
over-measure
over-modest
over-nice
over-people
over-persuade
over-please
over-populate
over-print
over-produce
over-proof
over-proportion
over-read
over-reckon
over-refine
over-rent
over-riding
over-round
over-rule
over-scrupulous
over-sell
over-shoe
over-size
over-soul
over-subscribe
over-supply
over-the-counter
over-the-counter drug
over-the-counter market
over-the-counter securities
over-train
over-trouble
over-trust
over-under
over-value
over-weight
over-wet
over-wise
over-zeal
overall length
overbearing pride
overcast stitch
overcome your resistance
overcome yourself
overcorrection of error
overcurrent relay
overdo it
overdose of
overdraft kiln
overdraw your account
overdrawn account
overextend yourself
overflow bug
overflow pipe
overflow with
overflow with energy
overflow with gratitude
overflowing eyes
overhand knot
overhead camshaft
overhead door
overhead lighting
overhead price
overhead railway
overhead-valve engine
overheated economy
overland stage
overlap fault
overlap radar
overlay glass
overload breaker
overload circuit
overload circuit breaker
overload relay
overload starter
overload switch
overlook distinctions
overlook no possibility
overlook nothing
overlooking no possibility
overly permissive
overmonopo-lizing
overnight bag
overnight sensation
overnight telegram
overopenness to conviction
overopenness to persuasion
overplay your hand
overreach yourself
overreact to
overseas bar
overseas cap
overseas operations
overseas telegram
overshoot the field
overshoot the mark
overshot wheel
oversstay the market
overstep the bounds
overstep your bounds
overstep your prerogatives
overstep your rights
overstuffed chair
overt act
overthrow your mind
overthrow your reason
overthrust fault
overtime pay
overture and beginners
overweening pride
overwhelming defeat
ovi-
ovo-
ovo-testis
ovo-viviparous
owala oil
owala tree
owe a grudge
owe it to
owe it to yourself
owe you no thanks
owing to
owl butterfly
owl car
owl fly
owl midge
owl monkey
owl moth
owl parrot
owl swallow
owl's light
owl's-crown
owl-eyed
owl-faced
owl-glass
owl-haunted
owl-headed
owl-light
owl-sighted
owl-wide
owl-winged
owlet moth
owlet nightjar
own accord
own account
own authority
own choice
own correspondent
own discretion
own free will
own hands
own hook
own initiative
own power
own responsibility
own say-so
own sweet way
own up
own volition
own way
own yourself in the wrong
own-form
own-root
own-rooted
owning up
ox antelope
ox ball
ox balm
ox bile
ox bot
ox daisy
ox dance
ox feather
ox fence
ox heart
ox louse
ox rail
ox ray
oxonium compound
oxtail soup
oxter plate
oxy acid
oxy-
ox-acetylene
oxy-calcium
oxy-salt
oxyacetylene blowpipe
oxyacetylene cutting
oxyacetylene torch
oxyacetylene welder
oxyacetylene welding
oxy calcium light
oxychlor-
ox-diacetic acid
oxygen acid
oxygen effect
oxygen lance
oxygen mask
oxygen ratio
oxygen recorder
oxygen tank
oxygen tent
oxygen therapy
oxygen-acetylene
oxygen-acetylene cutting
oxygen-acetylene welding
oxygen-hydrogen welding
oxyhydrogen blowpipe
oxyhydrogen light
oxyhydrogen microscope
oxyquinoline sulphate
oyer and terminer
oyster agaric
oyster bank
oyster bar
oyster bay
oyster bed
oyster canoe
oyster catcher
oyster crab
oyster cracker
oyster culture
oyster dredge
oyster drill
oyster farmer
oyster fork
oyster fungus
oyster grass
oyster gray
oyster knife
oyster mine
oyster mushroom
oyster park
oyster pink
oyster plant
oyster plover
oyster rake
oyster rock
oyster scale
oyster schooner
oyster scow
oyster shell
oyster sloop
oyster stew
oyster tongs
oyster tree
oyster white
oyster-catcher
oyster-culturist
oyster-shaped
oyster-shell bark louse
oyster-shell scale
oysters in the half shell
oysters on the half shell
oystershell scale
oz ap
oz av
oz t
ozaena-
ozon-
ozone layer
ozone paper
ozonic ether
p & p
p's and q's
p-n junction
p-type
p/e ratio
pF
pH
pH meter
pW
pa system
paca-rana
pace egg
pace off
pachy-
pacific time
pack a punch
pack animal
pack away
pack bearer
pack carrier
pack drill
pack driver
pack duck
pack hoister
pack horse
pack ice
pack in
pack mule
pack needle
pack of cigarettes
pack of dogs
pack of lies
pack of nonsense
pack of troubles
pack off
pack on
pack on sail
pack puller
pack rat
pack road
pack rolling
pack sack
pack sheet
pack tent
pack the deal
pack train
pack twine
pack up
pack wall
pack-bearing
pack-horse
pack-laden
pack-needle
pack-saddle
package advertising
package bargaining
package conveyer
package deal
package price
package store
package tour
packaged goods
packaged house
packaged tour
packed caucus
packed cell volume
packed deal
packed jury
packed like herrings
packed like sardines
packed out
packed-up
packet boat
packet day
packet folio
packet ship
packet-boat
packing box
packing case
packing fraction
packing house
packing nut
packing plant
packing ring
pad crimp
pad eye
pad foot
pad groom
pad hook
pad horse
pad saddle
pad saw
pad stone
padded cell
paddle beam
paddle board
paddle boat
paddle box
paddle hole
paddle plate
paddle shaft
paddle staff
paddle steamer
paddle tennis
paddle tumbler
paddle wheel
paddle wing
paddle your own canoe
paddle-shaped
paddle-wheel
paddock pipe
paddy blast
paddy field
paddy lucern
paddy wagon
paddy-bird
paddywhack almanac
padge owl
padlock injunction
padlock law
padouk wood
padparadschah sapphire
paean of cheers
paed-
paedo-
pagan deity
pagan divinity
pagan priest
pagano-Christian
pagano-Christianism
page boy
page chair
page cord
page gauge
page numbering
page proof
page rest
page through
page-boy
pagoda sleeve
pagoda stone
pagoda tree
pagoda-tree
pai-hua
pai-loo
pai-loos
paid holiday
paid in full
paid vacation
paid-
paid-in
paille finne
pain in the ass
pain in the neck
pain killer
pain pill
pain spot
pain-afflicted
pain-assuaging
pain-bearing
pain-bought
pain-chastened
pain-dispelling
pain-distorted
pain-drawn
pain-fearing
pain-free
pain-giving
pain-inflicting
pain-killer
pain-killing
pain-producing
pain-racked
pain-stricken
pain-worn
pain-wrought
pain-wrung
pains and punishments
painstakingly match
paint a picture
paint binder
paint bridge
paint brusher
paint cleaner
paint drier
paint finish
paint frame
paint grinder
paint horse
paint hose
paint in bright colors
paint in glowing colors
paint in its true colors
paint keg
paint locker
paint mixer
paint pony
paint pot
paint pretty pictures of
paint primer
paint process
paint remover
paint roller
paint room
paint strake
paint the lily
paint the town red
paint thinner
paint work
paint yourself into a corner
paint-beplastered
paint-filler
paint-filling
paint-mixing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
painted beauty
painted bunting
painted cup
painted grass
painted greenling
painted lady
painted pony
painted snipe
painted tongue
painted trillium
painted turtle
painted woman
painter etcher
painter etching
painter graver
painter graving
painter stainer
painter's colic
painter's cream
painter-stainer
painting with the gift of speech
pair annihilation
pair case
pair of bellows
pair of binoculars
pair of compasses
pair of glasses
pair of pincers
pair of scales
pair of scissors
pair of spectacles
pair of suspenders
pair of tongs
pair of trousers
pair of tweezers
pair of twins
pair of virginals
pair of winks
pair off
pair production
pair royal
pair-horse
pair-oar
pair-oared
pair-royal
paired with
paisley print
pajama party
pak-choi
pak-choi cabbage
pak-chois
pakpak-lauin
pal around with
pal up
pal up with
pal with
palace car
palace court
palace guard
palace revolution
paleo-
palais de danse
palais glide
palas kino
palate bone
palatial residence
palatine tonsil
palato-
pale as a corpse
pale as a forpined ghost
pale as a ghost
pale as death
pale as his shirt
pale bark
pale blue chip
pale brandy
pale broomrape
pale catechu
pale color
pale corydalis
pale elder
pale horse
pale laurel
pale rider
pale-
pale-blooded
pale-blue
pale-bright
pale-cheeked
pale-colored
pale-complexioned
pale-dried
pale-earred
pale-eyed
pale-face
pale-faced
pale-gray
pale-green
pale-hued
pale-leaved
pale-livered
pale-looking
pale-red
pale-reddish
pale-refined
pale-souled
pale-spirited
pale-spotted
pale-striped
pale-tinted
pale-visaged
pale-yellow
paleo-
paleolithic man
paleontological geology
pales weevil
palette knife
paling board
palisade cell
palisade crown
palisade parenchyma
palisade worm
palkee gharry
pall-like
pall-mall
palladium red
palladium sponge
callet board
callet box
callet eye
callet knife
callet leather
callet stone
callet tail
callial sinus
calliative operation
calliative treatment
callid-faced
callid-fuliginous
callid-gray
callid-looking
callid-ochraceous
callid-tomentose
callio-
callisado crown
cally walsy
calm beetle
calm branch
calm butter
calm cabbage
calm capital
calm cat
calm chat
calm civet
calm cockatoo
calm crab
calm dove
calm family
calm fern
calm for
calm grass
calm grease
calm greaser
calm greasing
calm green
calm grub
calm honey
calm house
calm kale
calm kernel
calm leaf
calm lily
calm marten
calm nut
palm off
palm off on
palm oil
palm on
palm peach
palm play
palm reader
palm squirrel
palm starch
palm stay
palm sugar
palm sunday
palm swift
palm upon
palm vaulting
palm warbler
palm wax
palm weevil
palm willow
palm wine
palm worm
palm-bearing
palm-crowned
palm-fringed
palm-kernel oil
palm-leaf fan
palm-leaf hat
palm-leaved grass
palm-oil
palm-oil chop
palm-reading
palm-shaded
palm-shaped
palm-thatched
palm-tree
palm-veined
palma christi
palma samandoca
palmarosa oil
palmati-
palmella stage
palmer fly
palmer tree
palmer trout
palmer worm
palmer-worm
palmetto barrens
palmetto flag
palmetto green
palmetto scrub
palmy days
palmyra wood
palo blanco
palolo worm
palpebral fissure
palpitation of the heart
palsy-quaking
palsy-shaken
palsy-shaking
palsy-sick
palsy-stricken
palsy-struck
palsy-walsy
paltry affair
paludal fever
paludi-
paly-bendy
pam head
pampas cat
pampas deer
pampas formation
pampas fox
pampas grass
pampas-grass
pamper yourself
pampered darling
pan amalgamation
pan american day
pan boiler
pan bolt
pan broiler
pan conveyer
pan fish
pan for gold
pan grave
pan gravy
pan head
pan ice
pan out
pan shot
pan supari
pan-
pan-Latin
pan-Saxon
pan-american
pan-americanism
pan-anglican
pan-broil
pan-broiled
pan-broiling
pan-fired
pan-fried
pan-fry
pan-frying
pan-headed
pan-leaf
pan-loaf
pan-pipe
pan-sexualism
pan-shaped
pancake bell
pancake engine
pancake ice
pancake landing
pancake plant
panchen lama
panchromatic film
pancreas ptyalin
pancreat-
pancreatic digestion
pancreatic duct
pancreatic fibrosis
pancreatic juice
pancuronium bromide
panda car
pandemic disease
pander to
pandora shell
panel beater
panel bed
panel board
panel body
panel den
panel discussion
panel heating
panel house
panel length
panel lighting
panel patch
panel photograph
panel pin
panel plane
panel point
panel saw
panel show
panel strip
panel switching
panel system
panel thief
panel truck
panel van
panel wall
panel wheel
pangs of conscience
panic bar
panic bent
panic bolt
panic fear
panic grass
panic party
panic terror
panic-driven
panic-pale
panic-prone
panic-proof
panic-stricken
panic-strike
panic-struck
panic-stunned
panne velvet
pannier pack
pannikin boss
panoramic radar
panoramic shot
panoramic sight
panoramic telescope
pansy orchid
pansy purple
pansy violet
pansy-colored
pansy-growing
pansy-purple
pansy-violet
pansy-yellow
pant after
pant for
pant suit
pant-
panta-
pantechnicon van
paper holder
paper hornet
paper house
paper hunt
paper jogger
paper joint
paper knife
paper lapper
paper machine
paper mill
paper money
paper mulberry
paper muslin
paper nautilus
paper nautilius
paper office
paper on the wall
paper over
paper plant
paper profit
paper profits
paper pulp
paper pulper
paper rack
paper rate
paper sculpture
paper seller
paper shale
paper sorter
paper stainer
paper standard
paper surplus
paper tape
paper tiger
paper title
paper towel
paper toweling
paper tree
paper varnisher
paper war
paper wasp
paper work
paper works
paper-backed
paper-baling
paper-bound
paper-capped
paper-chasing
paper-clothed
paper-coated
paper-coating
paper-collared
paper-covered
paper-cutter
paper-cutting
paper-drilling
paper-embossing
paper-faced
paper-filled
paper-folding
paper-footed
paper-hangings
paper-lined
paper-mended
paper-palisaded
paper-paneled
paper-patched
paper-saving
paper-selling
paper-shell
paper-shelled
paper-shuttered
paper-slitting
paper-sparing
paper-stainer
paper-stamping
paper-testing
paper-thick
paper-thin
paper-using
paper-varnishing
paper-waxing
paper-white
paper-whiteness
paper-windowed
paperbark maple
papery-skinned
papier colli
papier colle
papier mache
papier-mache
papier-mch
papoose board
papoose-root
paprika sauce
papular rash
papulo-
papyro-
papyrus capital
papyrus column
par avance
par avion
par bond
par collection
par cour
par excellence
par exemple
par parenthese
par value
par-
par-three
para red
para rubber
para-
para-agglutinin
para-aminobenzoic acid
para-aminophenol
para-analgesia
para-anesthesia
para-appendicitis
para-cymene
para-nitrophenol
para-phenetidine
para-rescue
para-ski
para-toluidine
parabolic aerial
parabolic antenna
parabolic reflector
parabolic-reflector microphone
parachute approach
parachute badge
parachute brake
parachute drogue
parachute flare
parachute jump
parachute jumper
parachute light
parachute light ball
parachute rigger
parachute spinnaker
parachute troops
paracoto bark
parade armor
parade bed
parade ground
parade rest
parade your wares
paradental pyorrhea
paradigm case
paradise apple
paradise bird
paradise duck
paradise finch
paradise fish
paradise flower
paradise flycatcher
paradise gallery
paradise grackle
paradise green
paradise grosbeak
paradise nut
paradise plant
paradise seed
paradise stock
paradise tree
paradox gun
paradoxical sleep
paraffin distillate
paraffin hydrocarbon
paraffin oil
paraffin paper
paraffin scale
paraffin series
paraffin wax
paraffin xylol
paraffin-base
paraffin-base oil
paraglyph printing
paragonite schist
parainfluenza virus
paralinguistic communication
parallel axiom
parallel bar
parallel bars
parallel column
parallel cousin
parallel cousin marriage
parallel dash
parallel fifths
parallel file
parallel forces
parallel intervals
parallel line
parallel middle body
parallel motion
parallel octaves
parallel of altitude
parallel of latitude
parallel operation
parallel postulate
parallel projection
parallel rule
parallel ruler
parallel rulers
parallel rules
parallel sailing
parallel series
parallel top
parallel trench
parallel turn
parallel vector
parallel-flow turbine
parallel-line scanning
parallel-veined
parallelogram law
parallelogram of forces
parallelogram rule
paralysis agitans
paralysis of authority
paralytic dementia
paralytic rabies
paralytic stroke
parametric amplifier
paramine brown
paramount estate
paranitraniline red
paranoiac psychosis
paranoid delusion
paranoid personality
paranoid psychosis
paranoid schizophrenia
paraphase amplifier
parasite drag
parasite resistance
parasitic drag
parasitic plant
parasitic suppressor
parasitic vowel
parasol ant
parasol fern
parasol mushroom
parasol pine
parasol skirt
parasol wing
parasol-shaped
parasympathetic nervous system
parathyroid extract
parathyroid gland
parathyroid hormone
parathyroid tetany
paratoid gland
paratroop tactics
paratrooper boots
paratyphoid bacillus
paratyphoid fever
parce que
parcel carrier
parcel checker
parcel delivery
parcel gilding
parcel of land
parcel out
parcel paper
parcel post
parcel-blind
parcel-carrying
parcel-deaf
parcel-divine
parcel-drunk
parcel-gilder
parcel-gilding
parcel-gilt
parcel-guilty
parcel-learned
parcel-mad
parcel-packing
parcel-plate
parcel-popish
parcel-post stamp
parcel-stupid
parcel-terrestrial
parcel-tying
parchment bark
parchment lace
parchment paper
parchment worm
parlor grand
parlor house
parlor pink
parlour car
parlour game
parlous straits
parochial church council
parochial council
parochial school
parol arrest
parol contract
parole femme
parole law
paroquet auklet
paroquet bur
parotid duct
parotid gland
paroxysmal tachycardia
parquet circle
parquet floor
parrel truck
parrot bullfinch
parrot cry
parrot disease
parrot fever
parrot fish
parrot green
parrot mouth
parrot's-bill
parrot's-feather
parrot-beak
parrot-beaked
parrot-billed
parrot-coal
parrot-fashion
parrot-Fish
parrot-gray
parrot-learned
parrot-mouthed
parrot-nosed
parrot-red
parrot-toed
pars intermedia
parsley bed
parsley crown
parsley fern
parsley pie
parsley piert
parsley wreath
parsley-flavored
parsley-leaved
parsnip wine
parson bird
parson's nose
parson-bird
part and parcel
part by part
part company
part exchange
part from
part gate
part music
part of speech
part of writing
part owner
part singing
part song
part time
part with
part work
part-created
part-done
part-earned
part-finished
part-heard
part-off
part-opened
part-owner
part-score
part-song
part-time
part-time worker
part-timer
part-writing
partake in
partake of
partake of the Lord's Supper
parted and fretty
parted from
parted per tierce
parterre box
parterre boxes
parti pris
parti-
parti-color
parti-colored
parti-coloured
parti-decorated
parti-mortgage
parti-named
parti-striped
partial amnesia
partial blindness
partial darkness
partial denture
partial derivative
partial differential
partial differential equation
partial eclipse
partial fraction
partial fractions
partial hold deck
partial ordering
partial pressure
partial product
partial score
partial sum
partial to
partial tone
partial vacuum
partially ordered
partially ordered set
particeps criminis
participant observation
participant observer
participate in
participating bond
participating insurance
participating mortgage
participating preferred
participating preferred stock
participatory democracy
particle accelerator
particle counter
particle of difference
particle physics
particle separation
particle velocity
particular affirmative
particular average
particular choice
particular estate
particular lien
particular negative
party liner
party machine
party man
party member
party per fess
party per tierce
party philosophy
party platform
party politics
party pooper
party principle
party spirit
party to a suit
party wall
party wheelhorse
party whip
party wire
party-colored
party-column ballot
party-giving
party-making
party-man
party-political
party-spirited
party-wall
party-walled
party-zealous
parula blue
parula warbler
parvi-
pas d'action
pas de basque
pas de chat
pas de cheval
pas de deux
pas de trois
pas du tout
pas seul
pasch egg
pasch-egg
paschal candle
paschal controversy
paschal flower
paschal lamb
paschal letter
paso doble
pasque-flower
pass all bounds
pass along
pass an opinion
pass and repass
pass around
pass as
pass away
pass band
pass belief
pass boat
pass box
pass by
pass by in silence
pass check
pass comprehension
pass counterfeit money
pass course
pass current
pass degree
pass door
pass for
pass from mouth to mouth
pass holder
pass in review
pass in the dark
pass in the mind
pass in the thoughts
pass in your checks
pass in your chips
pass into
pass into your hands
pass judgment
pass key
pass law
pass master
pass muster
pass off
pass off on
pass on
pass out
pass out cold
pass out of sight
pass out of the picture
pass over
pass over Jordan
pass over lightly
pass point
pass sentence
pass sentence on
pass the Rubicon
pass the buck
pass the eyes over
pass the fingers over
pass the hat
pass the queer
pass the time
pass the time of day
pass through
pass through your head
pass through your mind
pass time
pass to the order of the day
pass under review
pass under the name of
pass understanding
pass up
pass upon
pass water
pass with flying colors
pass you by
pass your lips
pass your time in
pass your word
pass-
pass-book
pass-by
pass-bye
pass-guard
pass-key
pass-man
pass-out
passage at arms
passage bed
passage bird
passage board
passage boat
passage d'arms
passage grave
passage hawk
passage money
passage of arms
passage of time
passage penny
passage work
passage-boat
passage-free
passage-making
passage-work
passaree boom
passe-partout
passe-partouts
passe-temps
passed away
passed ball
passed by
passed master
passed on
passed out
passed over
passed up
passed-master
passenger agent
passenger capacity
passenger car
passenger density
passenger falcon
passenger list
passenger locomotive
passenger manager
passenger mile
passenger mileage
passenger pigeon
passenger plane
passenger steamer
passenger train
passenger-mile
passenger-pigeon
passer-by
passerine bird
passers-by
passing around
passing away
passing belief
passing bell
passing by
passing fancy
passing note
passing over
passing shot
passing spring
passing strake
passing strange
passing the buck
passing through
passing up
passing word
passing-note
passion cross
passion flower
passion fruit
passion nail
passion play
passion sunday
passion week
passion blazing
passion-breathing
passion-colored
passion-distracted
passion-driven
passion-feeding
passion-filled
passion-flower
passion-fraught
passion-frenzied
passion-guided
passion-kindled
passion-kindling
passion-led
passion-proud
passion-ridden
passion-shaken
passion-smitten
passion-stirred
passion-stung
passion-swayed
passion-thrilled
passion-thrilling
passion-torn
passion-tossed
passion-wasted
passion-winged
passion-worn
passive algolagnia
passive immunity
passive noun
passive obedience
passive reason
passive resistance
passive resister
passive self-annihilation
passive voice
passive-aggressive reaction
passive-dependence reaction
passive-minded
passy-measures
past and gone
past bearing
past comprehension
past danger
past dispute
past due
past expectation
past experience
past history
past hope
past master
past mistress
past one’s head
past participle
past perfect
past perfect tense
past praying for
past progressive tense
past recall
past recollection
past tense
past time
past times
past use
past your prime
past-due
past-master
paste grain
paste mold
paste on
paste wash
paste water
paste-egg
paste-up
pastel blue
pastel color
pastel gray
pastel orange
pastel painting
pastel-tinted
pasteur treatment
pasteurized milk
pastor-elect
pastoral care
pastoral counseling
pastoral drama
pastoral elegy
pastoral epistle
pastoral letter
pastoral poet
pastoral poetry
pastoral prayer
pastoral staff
pastoral theology
pastrami sandwich
pastry bag
pastry chef
pastry cook
pastry cream
pastry custard
pastry flour
pastry shell
pastry tube
pasture bird
pasture grass
pasture land
pasture on
pasture rose
pasture thistle
pasty-faced
pasty-footed
pat hand
pat on the back
pat on the cheek
pat on the head
pat pend
pat yourself on the back
pat-a-cake
pat-pat
patch board
patch bolt
patch box
patch pocket
patch test
patch things up
patch together
patch up
patch up a friendship
patch up a quarrel
patch-box
patching plaster
patchouli oil
patchwork quilt
pate d’amande
pate de foie gras
patellar reflex
patent anchor
patent block
patent flour
patent hammer
patent leather
patent light
patent log
patent medicine
patent note
patent office
patent right
patent slip
patent space
patent still
patent-cut jib
pater patratus
paternal ancestor
paternal domicile
paternal love
paternal roof
paternity suit
paternoster line
path of least resistance
path-
pathetic fallacy
patho-
pathologic anatomy
pathological chemistry
pathological condition
pathological drinker
pathological drunkenness
pathological indecisiveness
pathological intoxication
pathological liar
pathological lying
pathological type
patience dock
patience of Job
patience-dock
patient as Job
patient man
patient of
patina green
patio process
patr-
patres conscripti
pauper-feeding
pauper-making
pause for station identification
pauvre diable
pave the way
pave the way to
paved road
pavement ant
pavement artist
pavement epithelium
pavement light
paver of the way
pavilion hospital
pavilion roof
paving brick
paving material
paving roller
paving stone
paving tile
pavor nocturnus
paw print
paw-paw
paw-pawness
pawed-over
pawl bitt
pawl head
pawl post
pawl rim
pawn ticket
pax in bello
pax tecum
pax vobiscum
pay COD
pay a compliment
pay a visit
pay addresses to
pay after deductions
pay after taxes
pay and allowances
pay as you go
pay at sight
pay attention
pay attention to
pay attentions to
pay back
pay back in full measure
pay bed
pay by installments
pay cash
pay cash down
pay cash on delivery
pay cash on the barrelhead
pay clerk
pay close attention
pay conscience money
pay court to
pay damages
pay dearly
pay dirt
pay divine honors to
pay down
pay envelope
pay exorbitantly
pay for
pay heed
pay heed to
pay homage to
pay honor to
pay in
pay in advance
pay in full
pay in kind
pay load
pay mind to
pay more than it's worth
pay no attention
pay no attention to
pay no mind
pay no regard to
pay off
pay off old scores
pay off the head
pay old debts
pay on
pay one in his own coin
pay out
pay over
pay phone
pay raise
pay regard to
pay reparation
pay reparations
pay respect to
pay roll
pay scot and lot
pay someone back in his own coin
pay spot cash
pay station
pay strict attention
pay suit to
pay the bill
pay the bills
pay the costs
pay the debt of nature
pay the debt to nature
pay the forfeit
pay the penalty
pay the piper
pay the shot
pay through the nose
pay to the tune of
pay too much
pay tribute
pay tribute to
pay up
pay you in your own coin
pay you in your own currency
pay your
pay your addresses to
pay your court to
pay your dues
pay your respects to
pay your share
pay your way
pay-
pay-TV
pay-all
pay-as-you-go
pay-day
pay-off
pay-rent
pay-roller
paying back
paying guest
paying off
paying out
paying the bills
paying up
paymaster general
paymaster-generalship
payment bill
payment in kind
pay no regard to
payroll deduction insurance
payroll padding
pe-tsai cabbage
pea bean
pea beetle
pea blight
pea coal
pea comb
pea crab
pea flower
pea green
pea grit
pea huller
pea in the shoe
pea jacket
pea measles
pea mildew
pea moth
pea ore
pea rifle
pea sheller
pea shrub
pea soup
pea souper
pea tree
pea vetchling
pea vine
pea weevil
pea-brained
pea-chick
pea-coat
pea-combed
pea-flower
pea-flowered
pea-jacket
pea-picking
pea-shoot
pea-sized
pea-soup
pea-soup fog
pea-souper
pea-soupy
pea-tree
peabody bird
peace and quiet
peace be to this house
peace be to you
peace be with you
peace be within thy walls
peace conference  
peace dove  
peace establishment  
peace feelers  
peace giver  
peace guild  
peace lover  
peace of God  
peace of heart  
peace of mind  
peace of soul  
peace of spirit  
peace offensive  
peace offer  
peace offering  
peace officer  
peace pipe  
peace warrant  
peace-abiding  
peace-blessed  
peace-breathing  
peace-bringing  
peace-enamored  
peace-giving  
peace-inspiring  
peace-keeping force  
peace-loving  
peace-lulled  
peace-offering  
peace-preaching  
peace-procuring  
peace-restoring  
peace-trained  
peaceful change  
peaceful coexistence  
peaceful death  
peaceful end  
peaceful protest  
peaceful sleep  
peach aphid  
peach bacteriosis  
peach bark beetle  
peach bell  
peach blight  
peach blister  
peach bloom  
peach blossom  
peach borer
peach canker
peach color
peach fuzz
peach melba
peach moth
peach red
peach rosette
peach twig borer
peach wine
peach-blossom
peach-blow
peach-colored
peach-kernel oil
peach-leaved
peachblossom pink
peachblow glass
peachtree borer
peachy-keen
peacock blue
peacock butterfly
peacock fan
peacock green
peacock heron
peacock iris
peacock moth
peacock ore
peacock pheasant
peacock poppy
peacock worm
peacock's feather
peacock's tail
peacock-blue
peacock-feathered
peacock-fish
peacock-flower
peacock-herl
peacock-hued
peacock-spotted
peacock-voiced
peak crest
peak factor
peak load
peak out
peaked cap
peaking circuit
peaky-faced
peal of applause
peal of laughter
peal of thunder
peal ringing
peanut bar
peanut brittle
peanut butter
peanut butter and jelly sandwich
peanut flour
peanut gallery
peanut oil
peanut politician
peanut politics
peanut tube
peanut worm
pear blight
pear blight beetle
pear borer
pear brandy
pear gauge
pear haw
pear midge
pear scale
pear shell
pear slug
pear squash
pear thorn
pear thrips
pear-leaved
pear-shaped
pearl ash
pearl barley
pearl blue
pearl bluish
pearl blush
pearl coating
pearl cotton
pearl danio
pearl diabase
pearl disease
pearl diver
pearl diving
pearl edge
pearl essence
pearl eye
pearl filler
pearl fisher
pearl fishing
pearl grain
pearl gray
pearl grey
pearl harbor
pearl hardening
pearl hen
pearl millet
pearl molding
pearl mussel
pearl oyster
pearl shell
pearl sheller
pearl shelling
pearl sinter
pearl spar
pearl spurry
pearl tapioca
pearl white
pearl-ash
pearl-barley
pearl-bearing
pearl-besprinkled
pearl-bordered
pearl-bush
pearl-coated
pearl-colored
pearl-crowned
pearl-encrusted
pearl-eyed
pearl-fishery
pearl-gemmed
pearl-gray
pearl-handled
pearl-headed
pearl-hued
pearl-like
pearl-lined
pearl-lipped
pearl-oyster
pearl-pale
pearl-pure
pearl-round
pearl-set
pearl-shell
pearl-studded
pearl-teethed
pearl-toothed
pearl-white
pearl-wreathed
pearl-yielding
pearly everlasting
pearly king
pearly nautilus
pearly-white
peart en up
peas in a pod
peasant blue
peasant cunning
peasant holder
peasant proprietor
peasant proprietorship
peasant revolt
peasant sleeve
peasant-born
pease brose
pease cod
pease pudding
peasecod breastplate
peat bank
peat bog
peat coal
peat digger
peat fiber
peat gas
peat hag
peat machine
peat moor
peat moss
peat reek
peat soil
peat spade
peat-roofed
peat-smoked
peau de soie
pebble cast
pebble dash
pebble gravel
pebble grinder
pebble heater
pebble leather
pebble mill
pebble powder
pebble vetch
pebble-covered
pebble-dashed
pebble-paved
pebble-paven
pebble-shaped
pebble-stone
pebble-strewn
pecan brown
peccant humor
peche melba
peck at
peck horn
peck of troubles
peck order
peckerwood mill
pecking order
pecky cypress
pectic acid
pectin sugar
pectini-
pectoral arch
pectoral cross
pectoral fin
pectoral girdle
pectoral muscle
pectoral sandpiper
peculiar expression
peculiar institution
peculiar people
peculiar thing
peculiar trait
pecuniary advantage
pecuniary aid
pecuniary resources
ped-
pedal board
pedal brake
pedal cords
pedal coupler
pedal curve
pedal extremity
pedal ganglion
pedal key
pedal keyboard
pedal note
pedal organ
pedal piano
pedal point
pedal polygon
pedal pushers
pedal surface
pedal wheel
pedal-pushers
pedately cleft
pedately veined
pedati-
peddler's cart
pede cloth
pede window
pedestal box
pedestal mount
pedestal pile
pedestal rock
pedestal table
pedestrian crossing
pedi-
pedigree clause
pedo-
pedunculate oak
pee your pants laughing
pee-pee
peek in
peek-bo
peel end
peel off
peel tower
peeled eye
peelie-wally
peeling disease
peen hammer
peen-to
peening rammer
peep frog
peep hawk
peep into the future
peep nap
peep of day
peep out
peep plate
peep show
peep sight
peep-bo
peep-hole
peep-show
peeping tom
peer at
peer group
peer into
peer of the realm
peer out
peers of the realm
peevious person
peg along
peg at
peg away
peg down
peg drum
peg float
peg leg
peg on
peg out
peg pants
peg the market
peg to hang on
peg tooth
peg top
peg-a-lantern
peg-tooth harrow
peg-top
pegged market
pegging awl
peking man
pelagic zone
pelargonic acid
pelargonium oil
pelican crossing
pelican fish
pelican flower
pelican hook
pell mell
pell-mell
pellagra-preventive factor
pellet bow
pellet molding
pellitory bark
pelo-
pelorus card
pelt rot
pelt wool
pelti-
pelting rain
pelvi-
pelvic arch
pelvic fin
pelvic girdle
pembroke table
pen and ink
pen cancellation
pen driver
pendulum press
pendulum pump
pendulum watch
pendulum wheel
pen-
penetrate into the mind
penetrated with
penetrating eye
penetrating look
penguin duck
penguin grass
peninsula pine
penis envy
penitent form
penitential Psalm
penitential act
penitential exercise
penitentiary book
pennant fish
pennant hoist
pennant-winged
pennat-
penniner-up
penni-
penniless man
pennsylvania dutch
penny ante
penny arcade
penny bank
penny black
penny bridal
penny cake
penny dreadful
penny gaff
penny grass
penny hat
penny horrible
penny loaf
penny pies
penny pincher
penny post
penny rent
penny stock
penny stocks
penny tree
penny wedding
penny wheep
penny whistle
penny wisdom
penny-a-line
penny-a-liner
penny-cress
penny-dreadful
penny-farthing
penny-gaff
penny-grass
penny-pincher
penny-pinching
penny-plain
penny-stone
penny-whistle
penny-wise
penny-wise and pound-foolish
pension off
pensionable age
pensioned off
pensioning off
pent road
pent roof
pent-roof
pent-up
pent-up in the memory
penta-
penta-acetate
pentaerythritol tetranitrate
pentagon dodecahedron
pentagonal dodecahedron
pentane lamp
pentanoic acid
pentatonic scale
penteconta-
penthouse roof
pentobarbitone sodium
pentose nucleic acid
pentose sugar
pentyl acetate
pentyl alcohol
pentyl group
peony dahlia
peony-flowered
people at large
people in general
people of fashion
people's democracy
people's front
people’s republic
people’s war
people-blinding
people-born
people-devouring
people-king
people-loving
people-pestered
people-pleasing
pep pill
pep rally
pep talk
pep up
pepped up
pepper bush
pepper caster
pepper game
pepper mill
pepper oil
pepper plant
pepper pod
pepper pot
pepper red
pepper sauce
pepper spot
pepper tree
pepper turnip
pepper vine
pepper wheat
pepper-and-salt
pepper-and-salt rope
pepper-box
pepper-castor
pepper-pot
pepper-tree
peppercorn rent
peppered moth
peppermint camphor
peppermint geranium
peppermint gum
peppermint oil
peppermint stringbark
peppermint tree
peptic digestion
peptic ulcer
peptide bond
per an
per annum
per ascensum
per bend
per capita
per caput
per cent
per centum
per chevron
per compound
per contra
per descensum
per diem
per head
per mensem
per mil
per mill
per pais
per pale
per pro
per procuration
per procurationem
per saltire
per saltum
per se
per second per second
per simpliciter
per stirpes
per-
perboric acid
perceived noise decibel
percentage composition
percentage error
percentage tare
perception deafness
perceptual defence
perch pole
perching bird
perchlor-
perchloric acid
perchromic acid
percolate in
percolate into
percussion bullet
percussion cap
percussion drilling
percussion figure
percussion fire
percussion fuse
percussion hammer
percussion instrument
percussion lock
percussion section
percussion stop
percussion table
percussion-proof
percussive welding
peregrine falcon
pereira bark
peremptory challenge
peremptory plea
peremptory refusal
perennial pea
perennial phlox
perennial ryegrass
perennial treatment
perennial-rooted
perfect binding
perfect body
perfect cadence
perfect competition
perfect contrition
perfect flower
perfect fool
perfect game
perfect gas
perfect gentleman
perfect lady
perfect likeness
perfect number
perfect participle
perfect pitch
perfect radiator
perfect ream
perfect rhyme
perfect square
perfect tense
perfect type
perfect usufruct
perfect year
perfecting press
perfecting touch
perfective aspect
perfectly sure
perfector press
perfidite Albion
perforated tape
perforated tracery
perforation gauge
perform a
perform a part
perform a part in
perform a rite
perform a role
perform action
perform aerobatics
perform as
perform divine service
perform music
perform on
perform rites
perform service
perform the act of love
perform the duties of
perform the functions of
perform the marriage act
perform the office of
perform your duty
performance test
performing area
performing arts
pergelisol table
peri-
peri-insular
periarteritis nodosa
periclinal twinning
peridental membrane
peridot of Ceylon
perigean tide
perigean tides
peril point
peril-laden
perilla oil
perineo-
period of duty
period of existence
period of revolution
period of rotation
period piece
period style
periodic acid
periodic function
periodic law
periodic motion
periodic sentence
periodic system
pernicious anaemia
pervious anemia
pervious weed
pernyi silkworm
peroxide blond
peroxide-blond
peroxy group
peroxy radical
peroxy-
peroxymonosulfuric acid
peroxysulfuric acid
peroxysulphuric acid
perend stone
perend wall
perpendicular distance
perpendicular hand
perpetual adoration
perpetual bond
perpetual calendar
perpetual motion
perplexed question
persecution complex
persian cat
persian lamb
persist in
persistence of vision
persistent cruelty
persistent lactation
person in charge
person of consequence
person of fashion
person of importance
person of note
person of renown
person to be reckoned with
person-to-person
person-to-person call
persona grata
persona non grata
personae gratae
personae non gratae
personal adviser
personal aims
personal ambition
personal appearance
personal choice
personal column
personal conflict
personal correspondence
personal desires
personal effects
personal eq his essays
personal equation
personal file
personal idealism
personal identity
personal initiative
personal judgment
personal letter
personal liberty
personal matter
personal name
personal pronoun
personal property
personal property tax
personal remark
personal responsibility
personal shopper
personal sonar
personal staff
personal style
personal usage
personality bob
personality conflict
personality disintegration
personality disorder
personality disorganization
personality inventory
personality tendency
personality test
personality type
personnel director
personnel manager
persons of the drama
perspiration odor
persuade yourself
persuasion-proof
persulfuric acid
persulphuric acid
pertain to
pertaining to
pertinent to
peruvian bark
pervading attitude
pervading attitudes
perverse fool
perversion personality
perversion-notioned
perverted image
pest pear
pest-house
pest-ridden
pestilence-proof
pestle and mortar
pestle-shaped
pet cock
pet expression
pet food
pet lamb
pet name
pet peeve
pet subject
pet-cock
peta-
petal pink
pete blower
pete man
peter boat
peter gunner
peter out
peter pan
peter's pence
peter-boat
peter-penny
petit bleu
petit bourgeois
petit dejuner
petit feu
petit four
petit juror
petit jury
petit larceny
petit mal
petit point
petit serjeanty
petit souper
petit treason
petit-bourgeois
petit-juror
petit-juryman
petit-maitre
petit-mattre
petit-negre
petit-noir
petite bourgeoisie
petite marmite
petite noblesse
petite perception
petites perceptions
petitio principii
petition nomination
petition-proof
petits bourgeois
petits fours
petr-
petrarchan sonnet
petri dish
petrified forest
petrified wood
petro-
petro-occipital
petrol engine
petrol station
petroleum asphalt
petroleum benzine
petroleum coke
petroleum engine
petroleum engineer
petroleum engineering
petroleum ether
petroleum grease
petroleum jelly
petroleum naphtha
petroleum spirit
petticoat breeches
petticoat government
petticoat insulator
petticoat narcissus
petticoat pipe
petty bourgeois
petty bourgeoisie
petty canon
petty captain
petty cash
petty cashbook
petty criticism
petty gambler
petty grafter
petty juror
petty jury
petty king
petty larceny
petty mind
petty officer
petty officer first class
petty officer second class
petty officer third class
petty politician
petty politics
petty sessions
petty theft
petty thief
petty treason
petty tyrant
petty-bag
petty-minded
petty-mindedly
petty-mindedness
petulant person
petunia violet
peu de chose
pew chair
pew hinge
pew opener
pew rent
pew rental
pew renter
pewter mill
phaeton butterfly
phago-
phagocytic immunity
phako-
phallic stage
phallic symbol
phallic worship
phallic worshiper
phanero-
phantom acceleration
phantom circuit
phantom larva
phantom limb
phantom minnow
phantom of the mind
phantom orchid
phantom picture
phantom red
phantom tumor
phantom wire
phantom-fair
phantom-white
pharaoh ant
pharmaceutical chemist
pharmac-o-
pharmac-o-oryctology
pharyng-o-
pharyngeal cavity
pharyngeal tonsil
pharyngo-
pharyngo-oesophageal
pharyngo-oral
phase adjustment
phase advancer
phase angle
phase contrast microscope
phase control
phase converter
phase difference
phase discriminator
phase in
phase inverter
phase microscope
phase modulation
phase out
phase rule
phase space
phase splitter
phase splitting
phase transformer
phase velocity
phase-contrast
phase-discriminating amplifier
phase-rotation relay
phase-shift microphone
phase-wound
phase-wound rotor motor
phases of the moon
phatic communion
pheasant cuckoo
pheasant duck
pheasant under glass
pheasant's eye
pheasant's-eye
pheasant's-eyes
pheasant-eyed
pheasant-plumed
pheasant-shell
pheasant-tailed
phello-
phen-
phenacyl chloride
phenarsazine chloride
phenethyl alcohol
pheno-
phenobarbital sodium
phenol alcohol
phenol aldehyde
phenol coefficient
phenol red
phenol-phthalein
phenolic resin
phenolic urea
phenomenological psychology
phenomenological theology
phenyl acetate
phenyl alcohol
phenyl cyanide
phenyl ether
phenyl ethyl ether
phenyl group
phenyl iodide
phenyl isocyanate
phenyl mercaptan
phenyl methyl ketone
phenyl salicylate
phenyl valerate
phenylaminoproprionic acid
phenylene blue
phenylene group
phenylethyl alcohol
phenylethylbarbituric acid
phenylformic acid
phenylic acid
phenylmethylcarbinyl acetate
phenylpropyl acetate
phenylpyruvic oligophrenia
phi-meson
phi-phenomena
phi-phenomenon
phil-
philenor butterfly
philharmonic pitch
philo-
philosopher king
philosopher's stone
philosopher's wool
philosophers' stone
philosophic composure
philosophic doctrine
philosophic system
philosophic theory
philosophical anthropology
philosophical existentialism
philosophical existentialism
philosophical existentialist
philosophical idealism
philosophical induction
philosophical inquiry
philosophical investigation
philosophical optimism
philosophical optimist
philosophical pitch
philosophical proposition
philosophical speculation
philosophical theology
philosophical unitarianism
philosophico-
philosophy learned from examples
philosophy of being
philosophy of organism
philosophy of signs
philosophy of the Academy
philosophy of the Garden
philosophy of the Lyceum
philosophy of the Porch
philosophy of the Stoa
phleb-
phlebo-
phloem fiber
phloem necrosis
phloem parenchyma
phloem ray
phloro-
phobic reaction
phoebe bird
phoenix fowl
phon-
phone book
phone call
phone number
phone-in
phonemic alphabet
phonetic alphabet
phonetic character
phonetic law
phonetic spelling
phonetic symbol
phono-
phonograph record
phony disease
phony dividend
phony money
phony peach
phony war
phoo-phoo
phos-
phosph-
phosphate rock
phosphine oxide
phospho-
phosphonium iodide
phosphor bronze
phosphor copper
phosphoric acid
phosphoric anhydride
phosphoro-
phosphorous acid
phosphorous anhy-dride
phosphorus chloride
phosphorus disease
phosphorus necrosis
phosphorus oxide
phosphorus oxychloride
phosphorus pentachloride
phosphorus pentoxide
phosphorus sesquisulphide
phosphorus sulphide
phosphorus trichloride
phosphoryl chloride
phosphoryl group
phosphoryl radical
phossy jaw
phot-
phote finish
photo base
photo finish
photo layout
photo relief
photo spread
photo-
photo-electric
photo-engraving
photo-finish
photo-galvanography
photo-mount
photo-offset
photo-reconnaissance
photo-reconnaissance plane
photo-retouch
photo-set
photo-setting
photochemical process
photoconductor cell
photoelectric cathode
photoelectric cell
photoelectric cell meter
photoelectric cells
photoelectric colorimeter
photoelectric counter
photoelectric current
photoelectric detector
photoelectric device
photoelectric effect
photoelectric emission
photoelectric image converter
photoelectric inspection machine
photoelectric intrusion detector
photoelectric meter
photoelectric multiplier tube
photoelectric photometer
photoelectric pickup
photoelectric pinhole detector
photoelectric recorder
photoelectric sorter
photoelectric threshold
photoelectric timer
photoelectric tube
photoelectric tubes and cells
photoflash bulb
photoflash lamp
photoflash photography
photoflash synchronizer
photoflood lamp
photogelatin process
photograph album
photographer's model
photographic equipment
photographic magnitude
photographic memory
photographic paper
photographic realism
photographic reproduction
photographic telescope
photomicrographic camera
photomultiplier tube
photosensitive device
photosensitive devices
photosensitive glass
photostatic copy
phototypesetting machine
photovoltaic cell
photovoltaic effect
phrasal idiom
phrasal verb
phrase book
phrase mark
phrase marker
phrase structure
phrase-structure grammar
phrase-structure rule
phren-
phreno-
phthalic acid
phthalic anhydride
phthalocyanine blue
phthalocyanine green
phyco-
phyl-
phyll-
phyllo-
physi-
physic nut
physic-nut
physical anthropology
physical body
physical charm
physical checkup
physical chemistry
physical condition
physical culture
physical culturist
physical dependence
physical diagnosis
physical double star
physical education
physical examination
physical fitness
physical force
physical geography
physical geology
physical jerks
physical love
physical map
physical medicine
physical metallurgy
physical meteorology
physical optics
physical pendulum
physical pleasure
physical presence
physical science
physical sensibility
physical suffering
physical therapist
physical therapy
physical unfeeling
physical world
physician in ordinary
physico-
physico-theology
physio-
physiographic geology
physiologic epilepsy
physiological atmosphere
physiological botany
physiological chemistry
physiological individual
physiological phonetics
physiological psychology
physiological saline
physiological salt solution
physiologically addictive
physio-
phyt-
phytic acid
phyto-
phytogenic infection
pi a form
pi meson
pi-jaw
pi-meson
pia mater
pia-arachnitis
pick the brains of
pick the lock
pick to pieces
pick tongs
pick up
pick up an acquaintance with
pick up information
pick up speed
pick up the check
pick up the mooring
pick up the tab
pick your brains
pick your pockets
pick your steps
pick your way
pick-
pick-a-back
pick-bearing
pick-me-up
pick-nosed
pick-off
pick-up
pick-up arm
pick-up sticks
pick-up-sticks
pickaback plane
pickax team
picke-devant
picked dogfish
picked on
picked up
picked-hatch
picker-up
pickerel frog
pickerel-weed
picket fence
picket fort
picket guard
picket line
picket patrol plane
picket pin
picket ship
picket tail
picking and choosing
picking out
picking up
picking up the check
picking up the tab
picture plane
picture play
picture playwright
picture post card
picture postcard
picture rail
picture sash
picture shifts
picture show
picture spread
picture to yourself
picture tube
picture tubes
picture window
picture wire
picture writing
picture, the
picture-borrowing
picture-broidered
picture-buider
picture-buidered
picture-dealing
picture-hanging
picture-hung
picture-painting
picture-pasted
picture-seeking
picture-taking
picture-writing
pictures, the
piddling few
piddling number
pidgin English
pie baker
pie board
pie chart
pie dish
pie eater
pie filler
pie filling
pie in the sky
pie knife
pie maker
pie making
pie meat
pie piece
pie plate
pie rack
pie tin
pie vendor
pie wagon
pie wool
pie-baking
pie-eater
pie-eyed
pie-faced
pie-gow
pie-stuffed
piebald skin
piece accent
piece bien faite
piece brace
piece broker
piece by piece
piece de resistance
piece goods
piece justificative
piece mold
piece of advice
piece of ass
piece of cake
piece of eight
piece of evidence
piece of exchange
piece of gold
piece of good luck
piece of gossip
piece of guesswork
piece of land
piece of meat
piece of money
piece of news
piece of sharp practice
piece of silver
piece of virtu
piece of work
piece of writing
piece of your mind
piece out
piece price
piece price system
piece rate
piece together
piece wage
piece-dye
piece-dyed
piecing together
piecrust table
pied blackbird
pied goose
pied noir
pied wagtail
pied-
pied-a-terre
pied-billed
pied-billed grebe
pied-coated
pied-colored
pied-de-biche
pied-faced
pied-piping
pied-winged
piedmont glacier
pieds de cochon
pien check
pier arch
pier buttress
pier dam
pier glass
pier table
pier-head
pierce the ears
pierce the heart
pierce to the depths
pierced dollar
piercing eye
piercing look
piercing pain
piercing wind
pierian spring
pierre-perdu
pierrot show
piezo oscillator
piezo resonator
piezo-
piezoelectric crystal
piezoelectric effect
piezoelectric microphone
piff-paff
pig Latin
pig bed
pig boiling
pig breaker
pig cart
pig dealer
pig deer
pig hutch
pig in a poke
pig in clover
pig iron
pig lead
pig man
pig metal
pig tub
pig typhoid
pig wife
pig yoke
pig's ear
pig's wash
pig-back
pig-backed
pig-bed
pig-bellied
pig-breeding
pig-bribed
pig-chested
pig-dealing
pig-driving
pig-eating
pig-eyed
pig-faced
pig-farming
pig-fat
pig-footed
pig-haired
pig-haunted
pig-headed
pig-iron
pig-jaw
pig-jawed
pig-jump
pig-jumper
pig-keeping
pig-metal
pig-nut
pig-proof
pig-tailed
pig-tight
pigeon English
pigeon blood
pigeon breast
pigeon clock
pigeon flyer
pigeon grape
pigeon grass
pigeon hawk
pigeon hole
pigeon house
pigeon loft
pigeon pea
pigeon post
pigeon pox
pigeon timer
pigeon's milk
pigeon's-neck
pigeon-berry
pigeon-breast
pigeon-breasted
pigeon-breastedness
pigeon-hawk
pigeon-hearted
pigeon-hole
pigeon-house
pigeon-livered
pigeon-pea
pigeon-plum
pigeon-tailed
pigeon-toe
pigeon-toed
pigeon-wood
piggy bank
piggy-wiggy
piggyback car
piggyback control
piggyback rocket
pigment cell
pignus judiciale
pignus legale
pigs in blankets
pigs' feet
pigs' knuckles
pigsty bulwark
pigtail hook
pikaba hemp
pike hammer
pike perch
pike pole
pike sauce
pike squirrel
pike whale
pike-eyed
pill tile
pill wood louse
pill, the
pill-boasting
pill-box
pill-dispensing
pill-gilding
pill-rolling
pill-shaped
pill-taking
pillar block
pillar bolt
pillar box
pillar crane
pillar cult
pillar dollar
pillar file
pillar lip
pillar mount
pillar of society
pillar of the church
pillar plate
pillar post
pillar saint
pillar stone
pillar-and-breast
pillar-box
pillar-shaped
pillow block
pillow fight
pillow lace
pillow lava
pillow sham
pillow slip
pillow sword
pillow word
pillow-case
pillow-shaped
pilo-
pilose bent grass
pilot balloon
pilot bird
pilot biscuit
pilot boat
pilot bread
pilot burner
pilot cell
pilot chart
pilot chute
pilot cloth
pilot driver
pilot engine
pilot film
pilot fish
pilot flag
pilot flame
pilot house
pilot jack
pilot jacket
pilot ladder
pilot lamp
pilot light
pilot method
pilot model
pilot motor
pilot nut
pilot officer
pilot pin
pilot plan
pilot plane
pilot plant
pilot plow
pilot program
pilot raise
pilot signal
pilot skiff
pilot station
pilot trainee
pilot training
pilot tunnel
pilot valve
pilot waters
pilot whale
pilot wheel
pilot-bird
pilot-boat
pilot-fish
pilotless aircraft
pilsner glass
piltdown man
pima cotton
pimento cheese
pimento grass
pimiento cheese
pimpernel root
pimple copper
pimple metal
pin a medal on
pin basket
pin bit
pin block
pin borer
pin boy
pin bridge
pin buttock
pin cherry
pin clover
pin curl
pin down
pin fallow
pin gear
pin grass
pin horse
pin in
pin knot
pin mark
pin mill
pin money
pin oak
pin on
pin pallet
pin pallet escapement
pin point
pin pool
pin prod
pin rack
pin rail
pin rod
pin seal
pin setter
pin something on someone
pin stripe
pin the tail on the donkey
pin tooth
pin tuck
pin tumbler
pin up
pin valve
pin vise
pin wheel
pin wire
pin wrench
pin your ears back
pin your faith to
pinch-hit for
pinch-hitting
pinch-run
pinch-spotted
pinched with hunger
pinched-in
pinchgut money
pincushion distortion
pincushion-flower
pindo palm
pindova palm
pine away
pine bark
pine bark aphid
pine barren
pine barrens
pine borer
pine bullfinch
pine cone
pine end
pine finch
pine for
pine grass
pine grosbeak
pine marten
pine mouse
pine needle
pine nut
pine oil
pine resins
pine sawfly
pine Sawyer
pine siskin
pine snake
pine tag
pine tar
pine tree
pine warbler
pine wool
pine worm
pine-apple
pine-barren
pine-bearing
pine-bordered
pine-built
pine-capped
pine-clad
pine-cone fish
pine-covered
pine-crested
pine-crowned
pine-dotted
pine-encircled
pine-fringed
pine-leaf scale
pine-needle oil
pine-sequestered
pine-shaded
pine-shipping
pine-tar oil
pine-tip moth
pine-tree
pine-tree flag
pine-wood
pineal apparatus
pineal body
pineal eye
pineal gland
pineapple cactus
pineapple disease
pineapple fiber
pineapple fungus
pineapple juice
pineapple oil
pineapple weed
piney dammar
piney tallow
piney woods
pinfall Wrestling
ping pong
ping-pong
pinhole camera
pinhole decay
pinhole pupil
pinion focusing microscope
pink bollworm
pink calla lily
pink champagne
pink coat
pink colors and pigments
pink corydalis
pink disease
pink elephant
pink elephants
pink eye
pink gin
pink grass
pink in
pink lady
pink locust
pink of perfection
pink poplar
pink rhododendron
pink salmon
pink salt
pink slip
pink spiders
pink spray
pink squirrel
pink stern
pink tea
pink vine
pink wine
pink-blossomed
pink-bound
pink-breasted
pink-checked
pink-cheeked
pink-coated
pink-colored
pink-eared
pink-eye
pink-eyed
pink-faced
pink-fleshed
pink-flowered
pink-foot
pink-footed
pink-hi
pink-leaved
pink-lipped
pink-ribbed
pink-shaded
pink-shelled
pink-skinned
pink-sterned
pink-striped
pink-tinted
pink-veined
pink-violet
pink-white
pinking iron
pinking shears
pinkster flower
pistol shot
pistol-handle knife
pistol-shaped
pistol-whip
pistol-whipping
piston displacement
piston drill
piston engine
piston motion
piston pin
piston plane
piston power
piston pump
piston ring
piston rod
piston spring
piston valve
piston-valve engine
pit against
pit against one another
pit bank
pit boss
pit brink
pit coal
pit craneman
pit dwelling
pit grave
pit hand
pit head
pit house
pit man
pit of Acheron
pit of your stomach
pit prop
pit sample
pit saw
pit sawing
pit sawyer
pit tomb
pit viper
pit-a-pat
pit-black
pit-blackness
pit-coal
pit-eyed
pit-head frame
pit-headed
pit-hole
pit-marked
pit-pat
pit-patter
pit-rotted
pit-specked
pit-working
pita fiber
pita fibre
pita flax
pita floja
pitch accent
pitch and plunge
pitch and toss
pitch apple
pitch black
pitch board
pitch box
pitch camp
pitch chain
pitch chisel
pitch circle
pitch coal
pitch cone
pitch cylinder
pitch discharger
pitch factor
pitch in
pitch indicator
pitch into
pitch kettle
pitch line
pitch on
pitch opal
pitch pine
pitch pipe
pitch point
pitch pot
pitch ratio
pitch shot
pitch speed
pitch surface
pitch upon
pitch your tent
pitch-and-putt
pitch-and-run
pitch-and-run shot
pitch-and-toss
pitch-black
pivot bearing
pivot blow
pivot bridge
pivot joint
pivot man
pivot on
pivot pier
pivot span
pivot stand
pivot tooth
pix-jury
pixy ring
pixy stool
pixy-led
pizza pie
place a value on
place after
place against
place an order
place at your disposal
place before
place bill
place brick
place card
place confidence in
place emphasis on
place hitter
place holder
place hunter
place in
place in difficulty
place in office
place in the foreground
place in the sun
place in your way
place isomerism
place itself
place kick
place kicker
place mat
place name
place of arms
place of articulation
place of assignation
place of confinement
place of habitation or resort
place of torment
place of trade
place of vice
place of worship
place open
place out at interest
place parallel to
place reliance in
place reliance on
place seeker
place setting
place side by side
place the blame for
place the blame on
place the responsibility for
place to live
place to your account
place to your credit
place trust in
place under arrest
place under oath
place upon
place upon record
place where you hang your hat
place your feet carefully
place yourself
place-begging
place-brick
place-grabbing
place-holder
place-holding
place-hunter
place-hunting
place-kick
place-kicker
place-loving
place-money
place-name
place-names
place-naming
place-proud
place-seeking
placebo effect
placement examination
placement kick
placement test
placer claim
placer deposit
placer gravel
placer miner
placer mining
placery boom
placid-featured
placid-mannered
placing-out
placita coronae
placket hole
placo-
plagal cadence
plagal mode
plagio-
plagioclase-basalt
plagioclase-granite
plagioclase-porphyrite
plagioclase-porphyry
plagioclase-rhyolite
plague grasshopper
plague mark
plague one
plague spot
plague-beleagured
plague-free
plague-haunted
plague-infected
plague-infested
plague-ridden
plague-smitten
plague-spot
plague-spotted
plague-stricken
plain English
plain Jane
plain aerial
plain as a pikestaff
plain as day
plain as the nose on your face
plain bearing
plain chant
plain chocolate
plain clothes
plain dealer
plain dealing
plain folks
plain knit
plain lap
plain living
plain people
plain rail
plain sail
plain sailing
plain sense
plain sewing
plain song
plain speaking
plain speech
plain style
plain stylist
plain suit
plain text
plain to be seen
plain tripe
plain wanderer
plain weave
plain words
plain-bodied
plain-bred
plain-clothed
plain-clothes man
plain-darn
plain-dressing
plain-edged
plain-faced
plain-featured
plain-garbed
plain-headed
plain-hearted
plain-laid
plain-looking
plain-mannered
plain-pranked
plain-soled
plain-speaking
plain-spoken
plain-spokenly
plain-spokenness
plain-work
plainclothes man
plan ahead
plan expenditures
plan of action
plan on
plan out
plan position indicator
plan-
planar process
planching nail
plank scraper
plank-shear
plank-sheer
planked steak
plankton net
planktonic algae
planned economy
planned parenthood
planning blight
planning board
planning function
planning hull
plano-
plano-concave
plano-convex
planographic printing
planomilling machine
plant a mine
plant anatomy
plant and animal life
plant beard
plant breeder
plant bug
plant cane
plant cell
plant cutter
plant disease
plant factor
plant families
plant feeder
plant fibrin
plant food
plant formation
plant gapeseed
plant geographer
plant geography
plant hair
plant hemp
plant hormone
plant house
plant insulin
plant kingdom
plant life
plant louse
plant part
plant pathology
plant physiology
plant root
plant seed
plant stem
plant thermal efficiency
plant worship
plant worshiper
plant yourself
plant-animal
plant-cutter
plant-eater
plant-eating
plantain lily
plantain squirrel
plantain tree
plantain-eater
plantain-leaved
plantar ligament
plantar nerves
plantar reflex
plantar veins
plantation acre
plantation rubber
planter's punch
planting stick
plantlike flagellate
plash wheel
plasm-
plasma body
plasma cell
plasma cell leukemia
plasma engine
plasma jet
plasma membrane
plasma substitute
plasma thromboplastic component
plasma torch
plasma transfusion
plasma-jet propulsion
plasmo-
plaster baker
plaster bond
plaster burner
plaster cast
plaster casting
plaster chopper
plaster down
plaster jacket
plaster of Paris
plaster of paris
plate machine
plate maker
plate mark
plate modulation
plate money
plate oven
plate pail
plate paper
plate piece
plate press
plate printer
plate proof
plate race
plate rail
plate resistance
plate shop
plate tectonics
plate tower
plate tracery
plate-bending
plate-carrier
plate-collecting
plate-cutting
plate-dog
plate-drilling
plate-glass
plate-glazed
plate-incased
plate-layer
plate-mark
plate-mounting
plate-punching
plate-roll
plate-rolling
plate-scarfing
plate-shaped
plate-shearing
plate-tossing
plated stem
platen press
plates of meat
platform balance
platform car
platform deck
platform elevator
platform frame
platform harvester
platform orator
platform oratory
platform rocker
platform scale
platform speaker
platform speaking
platform spring
platform ticket
platform wagon
platin-
platina yellow
platinic chloride
platino-
platinocyanic acid
platinoso-
platinum ammine
platinum black
platinum blond
platinum blonde
platinum lamp
platinum metal
platinum paper
platinum process
platinum sponge
platinum thermometer
platinum-blond
platitudinous ponderosity
platonic love
platoon fire
platoon school
platoon sergeant
platoon system
plats du jour
platted stem
platter-faced
platy-
play God
play Russian roulette
play a bunco game
play a deep game
play a desperate game
play a double game
play a double role
play a joke on
play a lone hand
play a part
play a part in
play a practical joke
play a practical joke upon
play a role
play a role in
play a scene
play a trick on
play a waiting game
play acting
play actor
play actorism
play actress
play against
play agent
play along
play around
play around with
play at
play at cross-purposes
play at dice
play at fast and loose with
play at hide and seek
play back
play backer
play ball
play bopeep
play by ear
play by the rules
play cat and mouse with
play construction
play debt
play dirty pool
play doctor
play down
play drum
play ducks and drakes with
play dumb
play d
play fair
play fast and loose
play fast and loose with
play favorites
play first fiddle
play fixer
play footsie with
play for
play for a sucker
play for time
play games
play group
play havoc with
play hell
play hell with
play hide and seek
play hob
play hob with
play hooky
play into the hands of
play it by ear
play it just right
play it like a master
play jazz
play merry hell with
play mischief with
play music
play of color
play of colors
play of fancy
play of light
play of wit
play off
play on
play on the feelings
play on words
play one false
play opposite
play out
play peekaboo
play pipe
play politics
play possum
play pranks
play right
play safe
play script
play second fiddle
play someone false
play the badger game
play the buffoon
play the deuce
play the deuce with
play the devil
play the devil with
play the drums
play the field
play the fool
play the game
play the hell with
play the hypocrite
play the lead
play the market
play the merry hell with
play the mischief with
play the part of
play the ponies
play the pontiff
play the same broken record
play the same old record
play the same old song
play the same old tune
play the spy
play the violin
play therapy
play to the galleries
play to the gallery
play tricks
play truant
play up
play up to
play upon
play violin
play with
play with fire
play with marked cards
play with yourself
play you off against another
play your cards
play your cards well
play your part
play your proper role
play-act
play-bill
play-book
play-by-play
play-day
play-down
play-judging
play-loving
play-off
play-prettty
play-producing
play-reading
playback machine
played out
player piano
playful as a kitten
playground ball
playing God
playing area
playing around
playing by ear
playing card
playing cards
playing engagement
playing field
playing lightly over
playing possum
playing suit
playing trick
playing with fire
playing with yourself
plaza de toros
plea bargaining
plead for
plead guilty
plead ignorance
plead with
plead your case
plead your cause
pleasant company
pleasant journey
pleasant reception
pleasant stimulation
pleasant time
pleasant-eyed
pleasant-faced
pleasant-featured
pleasant-looking
pleasant-mannered
pleasant-minded
pleasant-natured
pleasant-sounding
pleasant-spirited
pleasant-spoken
pleasant-tasted
pleasant-tasting
pleasant-tongued
pleasant-voiced
pleasant-witted
please reply
please the crowd
please the nostrils
please yourself
pleased as Punch
pleased with
pleased with a rattle
pleased with yourself
pleasing style
pleasing to the eye
pleasure dome
pleasure dome of Kubla Khan
pleasure garden
pleasure giver
pleasure ground
pleasure lover
pleasure principle
pleasure seeker
pleasure taker
pleasure trip
pleasure-bent
pleasure-bound
pleasure-giving
pleasure-greedy
pleasure-loving
pleasure-pain
pleasure-seeker
pleasure-seeking
pleasure-shunning
pleasure-tempted
pleasure-tired
pleasure-wasted
pleasure-weary
pleasures of the mind
pledge keeper
pledge of secrecy
pledge taker
pledge the health of
pledge your honor
pledge your word
pledge-bound
pledge-free
plein air
plein jeu
plein-air
plein-air school
plein-airist
pleio-
plenary council
plenary indulgence
plenary inspiration
plenipotentiary power
pleno jure
plenty as blackberries
plenty good enough
plenty of notice
plenty to do
plenum system
pler-
pleroma violet
plesio-
pleur-
pleurisy root
pleuro-
pleuro-peritoneum
pleuro-pneumonia
pleuropneumonia-like organism
pliant-bodied
pliant-necked
plica polonica
plicato-
plight your faith
plight your honor
plight your troth
plighted bride
plighted faith
plighted love
plighted troth
plimsoll mark
plinth block
plinth course
plio-
plisse crepe
plod along
plop down
plot a course
plot line
plot lines
plot of ground
plot of land
plot out
plot survey
plottage increment
plottage value
plotting board
plotting paper
plough back
plough-boy
plough-head
plough-land
plough-monday
plough-staff
plough-tail
ploughman's spikenard
plover egg
plover page
plover quail
plover-billed
plover-page
plow alms
plow anchor
plow back
plow back into
plow drill
plow hand
plow horse
plow iron
plow out
plow paddle
plow press
plow sole
plow steel
plow team
plow the deep
plow tree
plow truck
plow under
plow up
plow-bred
plow-cloven
plow-shaped
plow-torn
plowshare bone
pluck a crow with
pluck by the beard
pluck out
pluck the beard
pluck up
pluck up by the roots
pluck up heart
pluck up your spirits
pluck with someone
pluck-buffet
plug along
plug and feathers
plug at
plug away
plug bib
plug cap
plug casing
plug cock
plug drill
plug frame
plug hat
plug in
plug rod
plug switch
plug the same theme
plug tobacco
plug up
plug-hatted
plug-ugly
plugged up
plum bladder
plum blotch
plum brandy
plum broth
plum curculio
plum duff
plum fir
plum gouger
plum granite
plum grape
plum pocket
plum pudding
plum purple
plum scab
plum thrips
plum tree
plum violet
plum weevil
plum wine
plum yew
plum-blue
plum-brown
plum-cake
plum-colored
plum-duff
plum-green
plum-pie
plum-porridge
plum-purple
plum-shaped
plum-sized
plum-tinted
plum-tree
plumb bob
plumb bond
plump upon
plumy coconut
plunge bath
plunge battery
plunge headlong
plunge in
plunge in water
plunge into
plunge into debt
plunge into difficulties
plunge into dissipation
plunge rod
plunge the world into war
plunge you into despair
plunge you into sorrow
plunged in debt
plunged in grief
plunger bucket
plunger elevator
plunger magnet
plunger piston
plunger pump
plunging fire
plunging neckline
plunk down
plunk down the money
plunk for
plural number
plural system
plural vote
plural voting
pluralistic idealism
pluri-
plus c'est la meme chose
plus ca change
plus fours
plus head
plus lens
plus ou moins
plus sight
plus sign
plus thread
plus-foured
plus-fours
plush copper
plush stitch
plutonic rock
plutonium bomb
plutonium reactor
ply metal
ply rolling
ply the oar
ply upon
ply yarn
ply your trade
plymouth brethren
plymouth cloak
plymouth rock
plywood saw
pn-
pneo-
pneum-
pneumat-
pneumatic clock
pneumatic hammer
pneumatic servo
pneumatic tire
pneumatic trough
pneumatic tyre
pneumatic-tired
pneumatico-
pneumato-
pneumato-hydato-genetic
pneumo-
pneumococcal pneumonia
pneumogastric nerve
pneumonic fever
pneumonic plague
pneumono-
po-faced
poached eggs
poacher tub
poalike fescue grass
pock lymph
pock nook
pock scab
pock-arred
pock-frecken
pock-fretten
pock-marked
pock-pit
pocket battleship
pocket billiards
pocket bird
pocket bladder
poet laureate
poet's narcissus
poet-artist
poet-dramatist
poet-farmer
poet-historian
poet-humorist
poet-in-residence
poet-king
poet-laureateship
poet-musician
poet-novelist
poet-painter
poet-patriot
poet-pilgrim
poet-playwright
poet-plowman
poet-preacher
poet-priest
poet-princess
poet-saint
poet-satirist
poet-seer
poet-thinker
poet-warrior
poetic division
poetic genius
poetic image
poetic imagery
poetic imagination
poetic inspiration
poetic justice
poetic kineticist
poetic kinetics
poetic language
poetic licence
poetic license
poetic prose
poetic realism
poetic realist
poetic source
poetic tachism
poetic tachist
poetic works
poetico-
poetico-antiquarian
poetico-architectural
poetico-grotesque
point of interest
point of land
point of no return
point of order
point of repose
point of sailing
point of the chin
point of time
point of vantage
point of view
point off
point out
point out to
point paper
point rail
point salient
point set
point source
point space
point switch
point system
point tense
point the finger at
point the finger of scorn
point the way
point to
point to be solved
point transformation
point up
point-bearing pile
point-blank
point-blank refusal
point-by-point comparison
point-contact transistor
point-device
point-duty
point-event
point-junction transistor
point-lace
point-laced
point-on
point-particle
point-ring sight
point-set
point-set topology
point-to-point
point-to-point navigation
point-to-point race
pointed arch
pointed fox
pointed projection
pointing bone
pointing chisel
pointing doors
pointing mark
pointing out
pointing to
pointing tool
pointing trowel
points d'appui
points of the compass
poised against one another
poison bean
poison bush
poison dogwood
poison elder
poison gas
poison haw
poison hemlock
poison injector
poison ivy
poison mask
poison oak
poison parsley
poison pen
poison rye grass
poison sumac
poison sumach
poison tobacco
poison-laden
poison-pen
poison-pen letter
poison-pen writer
poison-sprinkled
poison-tainted
poison-tipped
poison-toothed
poisonous plant
poisonous plants
poitrine d'agneau
poitrine de veau
poke along
poke around
poke at
poke bonnet
poke brim
poke check
poke full of holes
poke fun at
poke in
poke into
poke out
poke the fire
poke your nose in
poke your nose into something
poke-bonnet
poke-bonneted
poke-brimmed
poke-cheeked
poke-easy
poke-pudding
poker dice
poker face
poker machine
poker work
poker-faced
poker-work
poky bonnet
polacca rig
polacca-rigged
poland china
polar axis
polar bear
polar body
polar circle
polar coordinate
polar coordinates
polar data
polar distance
polar easterlies
polar equation
polar fox
polar front
polar lights
polar opposites
polar opposition
polar ray
polar seal
polar sequence
polar star
polar valence
polari-
polarity cap
polarity of opinion
polarized-relay armature
polarizing angle
polarizing filter
polarizing microscope
pole bean
pole chain
pole changer
pole compass
pole effect
pole flounder
pole hammer
pole horse
pole jump
pole jumper
pole lathe
pole mast
pole of cold
pole piece
pole pitch
pole plate
pole screen
pole star
pole strap
pole topgallant mast
pole trawl
pole vault
pole vaulter
pole vaulting
pole-armed
pole-axe
pole-dried
pole-jump
pole-masted
pole-shaped
pole-stack
pole-trap
pole-vault
pole-vaulter
poles apart
poles asunder
polewood stage
poli-sci
police action
police alarm
police badge
police band
police baton
police blotter
police boat
police captain
police car
police chief
police club
police commissioner
police constable
police court
police detective
police dog
police force
police headquarters
police inquiry
police inspector
police interrogation
police investigation
police judge
police jury
police justice
police lantern
police lieutenant
police magistrate
police matron
police office
police officer
police power
police reporter
police sergeant
police state
police station
police up
police van
police wagon
police whistle
police-up
policeman bird
policeman's helmet
policemanice station
policy loan
policy maker
policy racket
policy science
policy shop
policy year
policy-holder
polio vaccine
polish off
polish the apple
polish the platter
polish up
polished rice
polissoir wheel
polite act
polite behavior
polite commendation
polite deportment
polite literature
polite society
political activism
political activist
political affairs
political animal
political arithmetic
political ballot
political behavior
political belief
political campaign
political canard
political candidate
political caucus
political commissar
political conservatism
political convention
political corruption
political dabbler
political doubletalk
political economist
political economy
political election
political faith
political front
political geography
political government
political hack
political henchman
political hopeful
political influence
political intrigue
political intriguer
political jargon
political leader
political leadership
political liberty
political machine
political map
political movement
political nomination
political organization
political party
political patronage
political philosophy
political platform
political police
political policy
political principle
political principles
political prisoner
political program
political question
political realist
political referendum
political science
political scientist
political theory
political worker
political-minded
politician-proof
politico-
politico-arithmetical
politico-commercial
politico-diplomatic
politico-ecclesiastical
politico-economical
politico-ethical
politico-geographical
politico-judicial
politico-military
politico-moral
politico-orthodox
politico-peripatetic
politico-religious
politico-sacerdotal
politico-scientific
politico-social
politico-theological
politics with bloodshed
polka dot
polka mazurka
polka-dot
polka-dotted
poll booth
poll degree
poll end
poll evil
poll parrot
poll pick
poll tax
poll watcher
poll-deed
poll-parrot
pollen analysis
pollen basket
pollen brush
pollen catarrh
pollen chamber
pollen count
pollen mass
pollen plate
pollen sac
pollen tube
pollen-covered
pollen-dusted
pollen-sprinkled
police verso
pollin-
polling booth
polling place
polling station
polly mountain
polly-fox
polly-parrot
polo ball
polo cart
polo coat
polo ground
polo neck
polo pony
polo shirt
polt-foot
poly-
poly-mountain
polyarthritis rheumatism
polychrest salt
polyconic projection
polyethylene glycol
polyglot dictionary
polygonal number
polyhedral angle
polyhedron formula
polymeric amide
polymorpho-
polymorphonuclear leucocyte
polymorphous perversity
polymorphous-pervious
polynereitic psychosis
polynomial ring
polyphase induction motor
polyphonic music
polyphonic prose
polyphosphoric acid
polypod brake
polypody family
polysulfide rubber
polysyllabic profundity
polytechnic school
polyunsaturated fat
polyurethane rubber
polyvalent vaccine
polyvinyl acetal
polyvinyl acetate
polyvinyl alcohol
polyvinyl butyral
polyvinyl chloride
polyvinyl resin
polyvinyl-formaldehyde
polyvinylidene chloride
polyvinylidene resin
pom girl
pom-pom
pom-pom girl
pom-pom-pullaway
pomace fly
pome-citron
pome-like
pomegranate purple
pomfret-cake
pomme blanche
pomme de terre
pomme-lion
pommes blanches
pomp and circumstance
pompadour green
pompano shell
pompous person
pompous prolixity
pompous word
ponceau red
pond apple
pond crow
pond cypress
pond duck
pond lily
pond pine
pond scum
pond smelt
pond-apple
pond-scum parasite
pond-skater
ponder over
ponderosa pine
pondosa pine
pondus medicinale
pone bread
pons Varolii
pons asinorum
pont l'eveque
pont-levis
pentes Varolii
pontiff purple
pontoon bridge
pontoon dock
pontoon hull
pontoon lifeboat
pony engine
pony express
pony grass
pony shaft
pony trekking
pony truck
pony truss
pony up
poodle dog
pooh bah
pooh pooh
pooh-bah
pooh-pooh
pooh-pooh theory
pooh-pooher
pool bottle
pool hall
pool hole
pool seller
pool table
pool your interests
pool your interests with
pooling of resources
poon up
poonga-oil
poop cabin
poop deck
poop out
poop royal
poop staff
pooped out
poor White
poor as Job
poor as Job's turkey
poor as a church mouse
poor behavior
poor bet
poor box
poor boy
poor boy sweater
poor clare
poor creature
poor cuckoldy knave
poor custody
poor debtor
poor devil
poor diction
poor excuse
poor farm
poor fist
poor gas
poor guardianship
poor health
poor husbandry
poor imitation
poor in spirit
poor john
poor judgment
poor law
poor lookout
poor man
poor man's gout
poor oat
poor opinion
poor outlook
poor person
poor possibility
poor prognosis
poor prospect
poor relation
poor relief
poor reputation
poor stewardship
poor taste
poor timing
poor tool
poor unfortunate
poor white
poor white trash
poor, the
poor-blooded
poor-box
poor-charactered
poor-clad
poor-debtor law
poor-do
poor-feeding
poor-folksy
poor-law
poor-minded
poor-rate
poor-sighted
poor-spirited
poor-spiritedly
poor-spiritedness
poor-will
poorly argued
poorly off
pop art
pop artist
pop ash
pop at
pop concert
pop culture
pop fly
pop foul
pop hero
pop in
pop into your head
pop literature
pop music
pop off
pop out
pop safety valve
pop the question
pop up
pop upon
pop valve
pop wine
pop your cherry
pop-
pop-corn
pop-gun
pop-off
pop-shop
pop-up
popcorn balls
popcorn flower
pope joan
pope's eye
pope's head
pope's nose
pope-holy
popeye catalufa
popinjay green
poplar birch
poplar borer
poplar box
poplar hawk
poplar worm
poplar-covered
poplar-crowned
poplar-flanked
poplar-leaved
poplar-lined
poplar-planted
popliteal space
popper cake
poppet head
poppet leg
poppet valve
poppet-head
popping crease
popping-crease
poppy anemone
poppy ash
poppy bee
poppy mallow
poppy oil
poppy seed
poppy-bordered
poppy-colored
poppy-crimson
poppy-crowned
poppy-flowered
poppy-haunted
poppy-head
poppy-pink
poppy-red
poppy-seed
poppy-sprinkled
poppyseed oil
pops concert
poptical art
poptical artist
popular air
popular belief
popular concert
popular etymology
popular front
popular hero
popular idol
popular literature
popular music
popular prices
popular psychology
popular regard
popular singer
popular song
popular sovereignty
popular taste
popular tune
popular vote
popular-priced
population explosion
population parameter
population pressure
population pyramid
porbeagle shark
porcelain clay
porcelain enamel
porcelain glass
porcelain green
porcelain maker
porcelain making
porcelain shell
porcelain tower
porch chair
porch climber
porch hammock
porch lamp
porch railing
porch rocker
porch screen
porch seat
port engine ahead
port engineer
port in a storm
port of call
port of embarkation
port of entry
port risk insurance
port royalist
port superintendent
port tack
port-caustic
port-crayon
port-hole
port-mouthed
port-royal
port-sale
port-vent
port-wine
port-wine mark
port-wine stain
port-winy
portable TV set
portable drill
portable engine
portable field unit
portable radio
portable saw
portable television set
portal frame
portal vein
portal-to-portal
portal-to-portal pay
portative organ
portcullis money
porte cochere
porte-
porte-cochere
porte-monnaie
porte-monnaies
porteous roll
porter aux nues
porter chair
porter's lodge
porter-house
porterhouse steak
porthole die
portia tree
portion off
portion or point of time
portion out
portioned out
portland cement
portmanteau word
portrait bust
portrait camera
portrait flask
portrait lens
portrait painter
portrait painting
portrait sculpture
portrait statue
portraying in the mind
portuguese man-of-war
portulan chart
pose a question
pose against
pose as
pose for effect
pose over against
posigrade rocket
posing against
posing over against
position artillery
position buoy
position co-ordinate
position code converter
position coder
position data transmitter
position effect
position finder
position indicator
position isomer
position isomerism
position light
position line
position paper
position target
position tracker
position warfare
positional error
positional notation
positioning mechanism
positive column
positive declaration
positive definiteness
positive direction of pitch
post-Biblical
post-Caesarean
post-Cambrian
post-Carboniferous
post-Carolingian
post-Cartesian
post-Cesarean
post-Chaucerian
post-Christiang
post-Christmas
post-Columbian
post-Confucian
post-Constantinian
post-Copernican
post-Crusade
post-Darwinian
post-Davidic
post-Devonian
post-Diocletian
post-Easter
post-Elizabethan
post-Eocene
post-Galilean
post-Gothic
post-Hittite
post-Homeric
post-Ibsen
post-Impressionist
post-Johnsonian
post-Jurassic
post-Justinian
post-Jutland
post-Kansan
post-Kantian
post-Leibnitzian
post-Leibnizian
post-Lent
post-Linnean
post-Marxian
post-Mendelian
post-Mesozoic
post-Miocene
post-Mishnaic
post-Mishninc
post-Mishnical
post-Mosaic
post-Mycenean
post-Napoleonic
post-Newtonian
post-Nicene Fathers
post-Oligocene
post-Ordovician
post-Paleozoic
post-Pauline
post-Pentecostal
post-Permian
post-Petrine
post-Phidian
post-Platonic
post-Pleistocene
post-Pliocene
post-Pythagorean
post-Reformation
post-Renaissance
post-Restoration
post-Revolutionary
post-Roman
post-Romantic
post-Shakespearian
post-Silurian
post-Socratic
post-Talmudic
post-Talmudical
post-Tertiary
post-Transcendental
post-Triassic
post-Tridentine
post-Vedic
post-Victorian
post-Volstead
post-audit
post-bag
post-bellum
post-boat
post-boy
post-captain
post-chaise
post-classical
post-communion
post-cyclic
post-date
post-diluvial
post-diluvian
post-factum
post-fine
postal union
postal zone
postcard bander
poste restante
poster bed
poster color
poster paint
poster painting
posterio-occlusion
postern door
postern gate
postero-
postgraduate education
postgraduate school
posthole auger
posthole spade
posthumous fame
posthypnotic suggestion
posting house
postlapsarian nature
postlapsarian state
postmaster general
postmaster-generalship
postmasters general
postmistress-ship
postmortem diagnosis
postmortem examination
postnasal drip
postoperative shock
postpainterly abstraction
postpainterly abstractionist
posture maker
posture making
posture-maker
pot ale
pot arch
pot barley
pot bottom
pot cheese
pot companion
pot culture
pot derby
pot earth
pot fisher
pot fisherman
pot furnace
pot garden
pot hat
pot kiln
pot lace
pot layering
pot lead
pot liquor
pot maker
pot marigold
pot marjoram
pot metal
pot plant
pot roast
pot shot
pot spinning
pot still
pot valve
pot wheel
pot-au-feu
pot-bellied
pot-belly
pot-boiler
pot-bound
pot-boy
pot-clay
pot-color
pot-earth
pot-gun
pot-gutted
pot-herb
pot-hole
pot-hook
pot-house
pot-hunter
pot-lead
pot-lid
pot-liquor
pot-luck
pot-metal
pot-pie
pot-pourri
pot-rustler
pot-shaped
pot-shot
pot-sick
pot-valiance
pot-valiancy
pot-valiant
pot-valiantly
pot-valiantry
pot-valliance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobbler
potage a la julienne
potage a la tete de veau
potage a la tortue
potage au tomate
potage aux herbes
potage volaille a la reine
potash alum
potash feldspar
potash granite
potash hunger
potash niter
potash soap
potassio-
potassium acetate
potassium acid carbonate
potassium acid oxala
potassium acid oxalate
potassium acid sulphate
potassium acid tartrate
potassium alum
potassium amide
potassium antimonate
potassium antimonyl
potassium antimonyl tartrate
potassium argon dating
potassium biaurate
potassium bicarbonate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chlorate
potassium chloride
potassium chromate
potassium chrome alum
potassium chromic sulfate
potassium cobaltinitrite
potassium cyanide
potassium dichromate
potassium ethyl xanthogenate
potassium ferricyanide
potassium ferrocyanide
potassium fluoride
potassium hydrate
potassium hydrogen tartrate
potassium hydroxide
potassium hypoantimonate
potassium hypochlorite
potassium iodide
potassium manganate
potassium myronate
potassium nitrate
potassium oxalate
potassium permanganate
potassium persulphate
potassium rhodanide
potassium sodium tartrate
potassium sulfate
potassium sulphate
potassium tetroxalate
potassium thiocyanate
potassium xanthate
potassium-argon dating
potato aphid
potato apple
potato ball
potato bean
potato beetle
potato blight
potato bug
potato cake
potato canker
potato cellar
potato chip
potato chips
potato crisp
potato fern
potato flour
potato fork
potato fungus
potato hook
potato masher
potato mosaic
potato moth
potato mottle
potato murrain
pouch bone
pouch-shaped
pouched mole
pouched rat
poulard wheat
poulette sauce
poult-de-soie
poulter's measure
poultry breeder
poultry breeding
poultry buyer
poultry buyer
poulet car
poule
poultry car
poultry culture
poultry dealer
poultry dresser
poultry dressing
poultry fancier
poultry fancying
poultry farm
poultry farmer
poultry farming
poultry feed
poultry grower
poultry house
poultry husbandry
poultry judging
poultry keeper
poultry keeping
poultry raiser
poultry raising
poultry rearing
poultry shop
poultry show
poultry stall
poultry tick
poultry wire
poultry yard
pounce bag
pounce box
pounce on
pounce paper
pounce tree
pounce upon
pouncet box
pouncet-box
pouncing paper
pound Scots
pound apothecaries'
pound avoirdupois
pound away
pound boat
pound brush
pound cake
pound degree
pound in
pound lock
pound mile
pound net
pound of flesh
pound out
pound sovereign
pound sterling
pound the ear
pound troy
pound-cake
pound-folly
pound-foolish
pound-foolishness
pound-foot
pound-force
pound-trap
pound-weight
pounds in after trim
pounds of thrust
pour a broadside into
pour balm into
pour balm on
pour balm upon
pour down
pour down the drain
pour down the rathole
pour forth
pour in
pour it on
pour money into
pour oil on
pour oil on the blaze
pour oil on the fire
pour oil on troubled waters
pour oil upon
pour on
pour on the coal
pour out
pour out blood like water
pour out the vials of your wrath
pour out vials of wrath
pour over
pour plate
pour point
pour test
pour water into a sieve
pour water on
pour with rain
pourer-off
pourer-out
pouring basin
pouring basket
pouring box
pouring rain
pousse-caf
pousse-cafe
poverty birch
poverty grass
poverty plant
poverty subculture
poverty-proof
poverty-stricken
pow wow
powder and shot
powder barrel
powder beef
powder blue
powder box
powder boy
powder burn
powder charge
powder chest
powder compact
powder down
powder flag
powder flask
powder grain
powder gray
powder horn
powder house
powder keg
powder magazine
powder maker
powder metallurgy
powder mill
powder monkey
powder paper
powder pimperlimpimp
power load
power loading
power loom
power meter
power microscope
power mower
power of appointment
power of attorney
power of expression
power of mind
power of mind over matter
power of money
power of reason
power of sight
power of suggestion
power of the keys
power of thought
power off
power pack
power plant
power play
power plug
power point
power politics
power press
power pump
power punch
power rail
power reactor
power relay
power sander
power saw
power sawyer
power series
power servo
power set
power shaft
power shears
power shovel
power source
power spin
power sprayer
power station
power steering
power stroke
power structure
power struggle
power supply
power take-off
power to act
power tool
power train
power transformer
power tube
power vacuum
power vessel
power weaver
power wheel
power-assisted steering
power-breeder reactor
power-directional relay
power-dive
power-dived
power-diving
power-dove
power-driven
power-elated
power-hunger
power-hungry
power-loom
power-operate
power-operated
power-packed
power-plant engineer
power-plant engineering
power-political
power-riveting
power-saw
power-sawed
power-sawing
power-sawn
power-seeking
power-supply engineer
powered flight
powerful like
powers of darkness
powers that be
powers that be, the
pox-marked
practical ability
practical art
practical consequence
practical joke
practical joker
practical knowledge
practical mechanics
practical mind
practical nurse
practical person
practical piece
practical politics
practical prop
practical reason
practical scientist
practical skill
practical test
practical theology
practical utility
practical wisdom
practical-minded
practical-mindedness
practice a profession
practice at the bar
practice curve
practice domesticity
practice fraud upon
practice landing
practice law
practice medicine
practice nonviolence
practice of medicine
practice on your credulity
practice philosophy
practice self-control
practice self-denial
practice sorcery
practice spiritualism
practice teacher
practice teaching
practice the golden rule
practice upon
practice-teach
practiced hand
praefaculum
praedium dominans
praedium serviens
praemunientes clause
praemunientes writ
praetorian guard
pragmatic logic
pragmatic sanction
pragmatic theory
pragmatic theory of truth
prairie acacia
prairie artichoke
prairie aster
prairie breaker
prairie button snakeroot
prairie chicken
prairie clover
prairie coneflower
prairie crab apple
prairie dock
prairie dog
prairie falcon
prairie fire
prairie fowl
prairie fox
prairie goose
prairie grouse
prairie hen
prairie itch
prairie june grass
prairie larkspur
prairie lily
prairie mallow
prairie marmot
prairie owl
prairie oyster
prairie phlox
prairie pine
prairie pointer
prairie poppy
prairie rattlesnake
prairie rocket
prairie rose
prairie sage
prairie schooner
prairie smoke
prairie soil
prairie squirrel
prairie turnip
prairie violet
prairie wakerobin
prairie warbler
prairie wolf
praise Father
praise God
praise and glorify God
praise meeting
praise the Lord
praise to excess
praise to the skies
praise ye Him all His hosts
praise ye the Lord
praise-begging
praise-deserving
praise-fed
praise-giving
praise-spoiled
praise-winning
pram bow
prank up
praso-
pray God that
pray do
pray for quarter
pray over
prayer bead
prayer beads
prayer book
prayer carpet
prayer flag
prayer machine
prayer mat
prayer meeting
prayer mill
prayer of thanks
prayer paper
prayer rug
prayer scarf
prayer service
prayer shawl
prayer tower
prayer wheel
prayer-answering
prayer-book
prayer-clenched
prayer-granting
prayer-hearing
prayer-lisping
prayer-loving
prayer-repeating
prayerful hope
praying cylinder
praying mantis
pre-
pre-Achaean
pre-Alfredian
pre-American
pre-Ammonite
pre-Ammonitish
pre-Armistice
pre-Arthurian
pre-Aryan
pre-Assyrian
pre-Augustan
pre-Augustine
pre-Babylonian
pre-Baconian
pre-British
pre-Buddhist
pre-Byzantine
pre-Cambronian
pre-Cambridge
pre-Canaanite
pre-Canaanitic
pre-Carboniferous
pre-Carolingian
pre-Catholic
pre-Celtic
pre-Centennial
pre-Chaucerian
pre-Chellean
pre-Chinese
pre-Christian
pre-Christianic
pre-Christmas
pre-Columbian
pre-Columbian art
pre-Congregationalist
pre-Congress
pre-Conquest
pre-Copernican
pre-Copernicanism
pre-Crusade
pre-Dantean
pre-Darwinian
pre-Darwinianism
pre-Dickensian
pre-Dorian
pre-Doric
pre-Dravidian
pre-Dravidic
pre-Dutch
pre-Easter
pre-Elizabethan
pre-Empire
pre-English
pre-French
pre-Georgian
pre-German
pre-Germanic
pre-Gothic
pre-Greek
pre-Han
pre-Hebrew
pre-Hellenic
pre-Hieronymian
pre-Hinduized
pre-Hispanic
pre-Homeric
pre-Inca
pre-Incan
pre-Incarial
pre-Indian
pre-Irish
pre-Islam
pre-Islamic
pre-Islamite
pre-Islamitic
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Koranic
pre-Latin
pre-Laurentian
pre-Linnaean
pre-Linnean
pre-Luciferian
pre-Lutheran
pre-Malay
pre-Malayan
pre-Malaysian
pre-Marxian
pre-Mendelian
pre-Messianic
pre-Methodist
pre-Mohammedian
pre-Mongolian
pre-Mosaic
pre-Moslem
pre-Muslim
pre-Mycenaean
pre-Napoleonic
pre-Newtonian
pre-Noachian
pre-Norman
pre-Norse
pre-Osmanli
pre-Palaeozoic
pre-Paleozoic
pre-Patrician
pre-Pauline
pre-Permian
pre-Persian
pre-Petrine
pre-Pharaonic
pre-Phidian
pre-Polish
pre-Pueblo
pre-Puebloan
pre-Raphael
pre-Raphaelism
pre-Raphaelite
pre-Raphaelitic
pre-Raphaelitish
pre-Raphaelitism
pre-Reconstruction
pre-Reformation
pre-Renaissance
pre-Restoration
pre-Revolution
pre-Roman
pre-Sargonic
pre-Saxon
pre-Semitic
pre-Shakespeare
pre-Shakespearean
pre-Shakespearian
pre-Silurian
pre-Socratic
pre-Solomonic
pre-Solonian
pre-Spanish
pre-Sumerian
pre-Syriac
pre-Syrian
pre-Tertiary
pre-Thanksgiving
pre-Tridentine
pre-Tudor
pre-Victorian
pre-Virgilian
pre-Volstead
pre-adamite
pre-amp
pre-audit
pre-axial
pre-chellean
pre-christian
pre-conquestal
pre-contract
pre-distortion
pre-earthly
pre-earthquake
pre-eclampsia
pre-eclamptic
pre-economic
pre-economical
pre-edit
pre-edition
pre-editor
pre-editorial
pre-editorially
pre-educate
pre-education
pre-educational
pre-educationally
pre-effect
pre-effective
pre-effectively
pre-effectual
pre-efficiency
pre-efficient
pre-efficiently
pre-effort
pre-elect
pre-election
pre-elective
pre-electric
pre-electrical
pre-electrically
pre-elemental
pre-elementary
pre-eligibility
pre-eligible
pre-eliminate
pre-elimination
pre-eliminator
pre-emancipation
pre-emarrass
pre-emarrassment
pre-embody
pre-emergency
pre-eminence
pre-eminency
pre-eminent
pre-eminently
pre-eminentness
pre-emotion
pre-emotional
pre-emperor
pre-employ
pre-employee
pre-employer
pre-employment
pre-empt
pre-emptible
pre-emption
pre-emption right
pre-emptioner
pre-emptive
pre-emptively
pre-emptor
pre-emptory
pre-enable
pre-enact
pre-enaction
pre-enclose
pre-enclosure
pre-encounter
pre-encourage
pre-encouragement
pre-endeavor
pre-endorse
pre-endorsement
pre-endorser
pre-energetic
pre-energy
pre-enforce
pre-enforcement
pre-engage
pre-engagement
pre-engineering
pre-enjoy
pre-enjoyable
pre-enjoyment
pre-enlarge
pre-enlargement
pre-enlighten
pre-enlightener
pre-enlightening
pre-enlightenment
pre-enlist
pre-enlistment
pre-enroll
pre-enrollment
pre-entail
pre-entailment
pre-enter
pre-entertain
pre-entertainer
pre-entertainment
pre-enthusiasm
pre-enthusiastic
pre-entitle
pre-entrance
pre-entry
pre-enumerate
pre-enumeration
pre-envelop
pre-envelopment
pre-environmental
pre-epic
pre-epidemic
pre-epochal
pre-equalization
pre-equip
pre-equipment
pre-equity
pre-erect
pre-erection
pre-erupt
pre-eruption
pre-eruptive
pre-escape
pre-escort
pre-esophageal
pre-essay
pre-essential
pre-establish
pre-established
pre-establisher
pre-establishment
pre-esteem
pre-estimate
pre-estimation
pre-estival
pre-eter
pre-eternal
pre-evide
pre-evaporate
pre-evaporation
pre-evaporator
pre-evasion
pre-evidence
pre-evident
pre-evidently
pre-evite
pre-evolutional
pre-evolutionary
pre-evolutionist
pre-exact
pre-exaction
pre-examination
pre-examine
pre-examiner
pre-excel
pre-excellence
pre-excellency
pre-excellent
pre-except
pre-exception
pre-exceptional
pre-exceptionally
pre-exchange
pre-excitation
pre-excite
pre-excitement
pre-exclude
pre-exclusion
pre-exclusive
pre-exclusively
pre-excursion
pre-excuse
pre-execute
pre-execution
pre-executor
pre-exempt
pre-exemption
pre-exhaust
pre-exhaustion
pre-exhibit
pre-exhibition
pre-exhibitor
pre-exile
pre-exilian
pre-exilic
pre-exist
pre-existence
pre-existent
pre-existentiary
pre-existentism
pre-expand
pre-expansion
pre-expect
pre-expectant
pre-expectation
pre-expedition
pre-expeditionary
pre-expend
pre-expenditure
pre-expense
pre-experience
pre-experiment
pre-experimental
pre-expiration
pre-explain
pre-explanation
pre-explanatory
pre-explode
pre-explosion
pre-expose
pre-exposition
pre-exposure
pre-expound
pre-expounder
pre-express
pre-expression
pre-expressive
pre-extend
pre-extensive
pre-extensively
pre-extent
pre-extinction
pre-extinguish
pre-extinguishment
precision barometer
precision block
precision bomber
precision bombing
precision caliper
precision camera
precision casting
precision clock
precision focusing
precision gauge
precision gauge block
precision grinding
precision instrument
precision lathe
precision lens
precision meter
precision punch
precision scale
precision screw
precision tool
precision weight
precision-production control
preclinical medicine
precombustion engine
precordial anxiety
precordial pain
precordial region
predaceous diving beetle
predation pressure
predicate adjective
predicate calculus
predicate nominative
predicate noun
predicate objective
predicated on
predictable error
predictable response
predictable within limits
predisposed to
predominance of Aquarius
pree the mouth of
preen gland
preen yourself
prefabricated house
prefect apostolic
prefects apostolic
prefecture apostolic
prefectures apostolic
prefer a claim 
prefer a petition 
prefer charges 
prefer to 
prefer your own company 
preference for the best 
preference primary 
preference share 
preference shares 
preference stock 
preferential shop 
preferential system 
preferential treatment 
preferential voting 
prefence bond 
preferne freight 
prefereed lie 
prefereed position 
prefereed stock 
prefree-trade 
prefrontal leucotomy 
prefrontal lobotomy 
pregenital fixation 
pregnant imagination 
pregnant moment 
pregnant of good 
pregnant with meaning 
prehensile tail 
prehistoric animal 
prehistoric animals 
prehistoric anthropology 
prehistoric archaeology 
prehistoric man 
prehistoric races 
predtice against 
predtice the issue 
predtice-proof 
prelapsarian state 
prelate nullius 
preliminary act 
preliminary approach 
preliminary convention 
preliminary examination 
preliminary measure 
preliminary sign 
preliminary signal 
preliminary step 
preliminary study
premarital relations
premarital sex
premature acceptance
premature baby
premature beat
premature contraction
premature judgment
premier danseur
premier performance
premiere danseuse
premiers danseurs
premium bond
premium bonds
premium gas
premium note
premium system
premonitory chill
premonitory plague
premonitory shiver
premonitory sign
premonitory symptom
prenatal Informal
prendre la balle au bond
prep school
prep schooler
preparatory act
preparatory instruction
preparatory measure
preparatory school
preparatory step
preparatory study
prepare against
prepare food
prepare for
prepare for burial
prepare for the evil day
prepare the ground
prepare the way
prepare to
prepare yourself
prepared and ready
prepared for
prepared for either course
prepared piano
prepared speech
prepared text
prepay station
prepositional phrase
prerogative court
prerogative instance
prerogative office
prerogative writ
presby-
preschool child
prescribe for
prescribed form
prescription drug
prescriptive grammar
preseasonal treatment
presence chamber
presence of God
presence of mind
presence room
presence-chamber
presenile dementia
present a bold front
present a petition
present a position paper
present a true bill
present arms
present difficulties
present itself
present itself to the mind
present itself to the thoughts
present no difficulties
present participle
present perfect
present tense
present the appearance of
present to
present to the eye
present to the eyes
present to the mind
present value
present your case
present yourself
present yourself to view
present-age
present-day
present-minded
present-time
presentation copy
presentation of the case
presentation time
presentative realism
presenting arms
preservative medium
preserve a balance
preserve a middle course
preserve an even course
preserve from oblivion
preserve your dignity
preserve your honor
preset board
preset control board
preside at the board
preside over
president general
president pro tempore
president-elect
presidential election
presidential government
presidential palace
presidential papers
presidential preference primary
presidential primary
presidential timber
presiding judge
presiding officer
press agency
press agent
press association
press bed
press boava
press box
press boy
press brake
press bundler
press bureau
press cake
press camera
press card
press charges
press clipper
press clipping
press cloth
press conference
press copy
press corrector
press correspondent
press cupboard
press down
press drill
press fastener
press feeder
press fit
press fitter
press forward
press gallery
press gang
press hard upon
press heavy on
press her
press in
press into service
press iron
press money
press notice
press objections
press of business
press of canvas
press of sail
press on
press onward
press operator
press out
press proof
press release
press roll
press section
press stud
press tender
press the attack
press time
press to the bosom
press to the ground
press upon
press your hand
press your suit
press, the
press-agent
press-agentry
press-bed
press-forgé
press-gang
press-made
press-mark
press-money
press-noticed
press-point
press-ridden
press-room
press-up
press-warrant
press-work
press-yard
pressed beef
pressed brick
pressed down
pressed for time
pressed glass
pressed hardboard
presser bar
presser foot
presser shoe
presser wheel
pressing boards
pressing iron
pressing out
pressure altimeter
pressure altitude
pressure atrophy
pressure blower
pressure boiler
pressure bottle
pressure box
pressure cabin
pressure center
pressure coil
pressure control
pressure cooker
pressure drag
pressure element
pressure evaporator
pressure fan
pressure filter
pressure gauge
pressure governor
pressure gradient
pressure group
pressure head
pressure hull
pressure ice
pressure indicator
pressure microphone
pressure mine
pressure neuropathy
pressure nozzle
pressure point
pressure producer
pressure pump
descriptor recorder
descriptor register
descriptor regulator
descriptor saucepan
descriptor sense
descriptor siphon
descriptor spot
descriptor spring
descriptor stage
descriptor suit
descriptor syllable
descriptor tank
descriptor transducer
descriptor transmitter
descriptor tube
descriptor valve
descriptor warrant
descriptor welding
descriptor wire
descriptor-cook
descriptor-fixing
descriptor-group politics
descriptor-reciprocating
descriptor-reducing
descriptor-regulating
descriptor-relief ring
descriptor-relieving
descriptor-testing
descriptor-vacuum valve
descriptorless space
descriptorized suit
descriptor you hard
descriptor money
descriptor-money
descriptoration money
descriptor john
descriptorize dialect
descriptor change
descriptor chango
descriptor stressed concrete
descriptor on
descriptor upon
descriptor presumption of fact
descriptor presumption of innocence
descriptor presumptive evidence
descriptor presumptive heir
presumptive right
pretend not to see
pretend to
pretend to be
preter-
preterit-present
preterite-present
preterito-present
preterito-presential
pretium puellae
pretty as a picture
pretty damned quick
pretty good
pretty kettle of fish
pretty lies
pretty much
pretty much the same
pretty near
pretty pass
pretty penny
pretty pickle
pretty piece of business
pretty predicament
pretty up
pretty well
pretty wit
pretty-behaved
pretty-by-night
pretty-face
pretty-faced
pretty-footed
pretty-humored
pretty-looking
pretty-mannered
pretty-pretty
pretty-spoken
pretty-toned
pretty-witted
prevail on
prevail over
prevail upon
prevail with
prevailing belief
prevailing sentiment
prevailing taste
prevailing westerlies
prevailing wind
prevenient grace
price-enhancing
price-fixing
price-lowering
price-raising
price-reducing
price-ruling
price-stabilizing
prices current
prick ear
prick mark
prick post
prick punch
prick shaft
prick shooting
prick song
prick the bubble
prick up
prick up the ears
prick up your ears
prick wheel
prick your balloon
prick-ear
prick-earing
prick-madam
prick-post
prick-seam
prick-song
prick-timber
pricking of conscience
pricking of heart
pricking wheel
pricking-up
prickle cell
prickle grass
prickle-back
prickle-cone pine
prickley heat
prickly ash
prickly glasswort
prickly grass
prickly heat
prickly lettuce
prickly pear
prickly phlox
prickly poppy
prickly shield fern
prickly thrift
prickly-finned
prickly-fruited
prickly-lobed
prickly-margined
prickly-seeded
prickly-toothed
pride and joy
pride of China
pride of India
pride of bearing
pride of place
pride of the morning
pride yourself
pride-blind
pride-blinded
pride-bloated
pride-fed
pride-inflamed
pride-inspiring
pride-of-India
pride-ridden
pride-sick
pride-swollen
prie-dieu
priest hole
priest vicar
priest-astronomer
priest-baiting
priest-catching
priest-doctor
priest-dynast
priest-educated
priest-guarded
priest-harboring
priest-hating
priest-hermit
priest-hole
priest-king
priest-knight
priest-led
priest-mono
priest-noble
priest-philosopher
priest-poet
priest-prince
priest-promoted
priest-ridden
priest-riddenness
priest-ruler
priest-statesman
priest-surgeon
priest-wrought
prim up
prim-behaving
prim-lipped
prim-looking
prim-mannered
prim-mouthered
prim-notioned
prim-seeming
prima ballerina
prima donna
prima facie
prima facie case
prima facie evidence
prima inter pares
prima materia
prima vista
prima-facie evidence
primal chaos
primal ignorance
primal stupidity
primal therapy
primary accent
primary anemia
primary atypical pneumonia
primary battery
primary burial
primary cell
primary coil
primary color
primary colour
primary contact
primary derivative
primary digestion
primary education
primary election
primary electron
primary evidence
primary form
primary group
primary highway
primary infection
primary intention
primary oocyte
primary optical area
primary phloem
primitive arch
primitive art
primitive church
primitive faith
primitive polynomial
primitive self
primitive settler
primo tenore
primp up
primrose green
primrose path
primrose peerless
primrose tree
primrose willow
primrose yellow
primrose-colored
primrose-decked
primrose-dotted
primrose-haunted
primrose-leaved
primrose-scented
primrose-spangled
primrose-starred
primrose-sweet
primrose-tinted
primrose-yellow
primuline color
primuline yellow
primum mobile
primus inter pares
primus stove
prince albert
prince charming
prince consort
prince elector
prince of wales
prince regent
prince royal
prince’s feather
prince’s pipe
prince’s-feather
prince’s-pine
prince-abbot
prince-angel
prince-bishop
prince-duke
prince-elector
prince-general
prince-killing
prince-poet
prince-president
prince-priest
prince-primat
prince-protected
prince-proud
prince-ridden
prince-teacher
prince-trodden
prince-wood
princes of India
princess pine
princess post
princess regent
princess royal
princess tree
princess-ship
principal argument
principal axis
principal boy
principal character
principal clause
principal diagonal
principal focus
principal idea
principal ideal
principal keeper
principal parts
principal plane
principal point
principal quantum number
principal rafter
principal series
principal sum
principal value
principle of complementarity
principle of corres
principle of correspondence
principle of desire
principle of equivalence
principle of faith
principle of government
principle of indeterminacy
principle of least action
principle of relativity
principle of superposition
principle of virtual work
prink out
prink up
print cloth
print cutter
print media
print medium
print out
print shop
print trimmer
print-out
print-out paper
printed antenna
printed circuit
printed matter
printed paper
printer's copy
printer's devil
printer's error
printer's imprint
printer's ink
printer's mark
printer's reader
printer's ream
printing calculator
printing equipment
printing frame
printing ink
printing machine
printing office
printing paper
printing plate
printing press
printing surface
printing telegraph
printing-house
printing-in
printing-out
printing-out paper
printing-press
prior consultation
prior right of purchase
prior to
prism binocular
prism binoculars
prism diopter
prism glass
prism level
prism spectrometer
prism spectrope
prism telescope
prismatic coefficient
prismatic compass
prismatic layer
prismatic telescope
prison base
prison bird
prison breach
prison camp
prison fever
prison guard
prison house
prison pallor
prison psychosis
prison term
prison ward
prison-bound
prison-bred
prison-bursting
prison-caused
prison-escaping
prison-free
prison-house
prison-made
prison-making
prison-taught
prisoner of war
prisoner's base
prisoner-of-war camp
prisoner-of-war stockade
prisoners' bars
prisse papyrus
pristine ignorance
prittle-prattle
private aims
private attorney
private aviation
private bill
private branch exchange
private business exchange
private checker
private company
private conference
private desires
private detective
private enterprise
private eye
private first class
private flying
private hospital
private hotel
private income
private information
private instructor
private international law
private investigator
private judgment
private knowledge
private law
private line
private matter
private means
private member
private ownership
private parts
private patient
private pilot
private plane
private practice
private press
private road
private room
private school
private secretary
private sector
private teaching
private treaty
private-duty nurse
private-enterprise
private-enterprise economy
private-line car
privation-proof
privet adelia
privet andromeda
privet hawk
privet honeysuckle
privilege from
privileged communication
privileged question
privy chamber
privy council
privy councilor
privy counsellor
privy parts
privy purse
privy seal
privy to
privy-councilship
prix fixe
prix fixes
prize court
prize crew
prize fight
prize fighter
prize fighting
prize flag
prize money
prize open
prize out
prize ring
prize sap
prize winner
prize-fight
prize-fighter
prize-giving
prize-playing
prize-ring
prize-taking
prize-winning
pro and con
pro bono publico
pro forma
pro forma balance sheet
pro memoria
pro patria
pro patria mori
pro rata
pro tanto
pro tem
pro tempore
pro-
pro-Abyssinian
pro-Alabaman
pro-Alaskan
pro-Algerian
pro-Alsatian
pro-American
pro-Americanism
pro-Anglican
pro-Arab
pro-Arabian
pro-Arabic
pro-Argentina
pro-Arian
pro-Aristotelian
pro-Armenian
pro-Asian
pro-Asiatic
pro-Athenian
pro-Australian
pro-Austrian
pro-Baconian
pro-Baptist
pro-Belgian
pro-Bessarabian
pro-Biblical
pro-Bohemian
pro-Bolivian
pro-Bolshevik
pro-Bolshevism
pro-Bolshevist
pro-Brazilian
pro-British
pro-Buddhist
pro-Bulgarian
pro-Burman
pro-Cambodia
pro-Cameroun
pro-Canadian
pro-Catholic
pro-Catholicism
pro-Ceylon
pro-Chilean
pro-Chinese
pro-Colombian
pro-Confederate
pro-Congolese
pro-Congressional
pro-Cuban
pro-Cyprus
pro-Czech
pro-Czechoslovakian
pro-Danish
pro-Darwin
pro-Darwinian
pro-Darwinism
pro-Denmark
pro-Dominican
pro-East
pro-Eastern
pro-Ecuador
pro-Lebanese
pro-Liberian
pro-Lybian
pro-Madagascan
pro-Malayan
pro-Malaysian
pro-Methodist
pro-Mexican
pro-Monaco
pro-Moroccan
pro-Moslem
pro-Muslem
pro-Muslim
pro- Negro
pro-Nigerian
pro-Nordic
pro-North
pro-Northern
pro-Norwegian
pro-Oriental
pro-Panama
pro- Panamanian
pro-Paraguay
pro-Paraguayan
pro-Peruvian
pro-Philippine
pro-Polish
pro-Portuguese
pro-Presbyterian
pro-Protestant
pro-Prussian
pro-Quaker
pro-Renaissance
pro-Rumanian
pro-Russian
pro-Scandinavian
pro-Scriptural
pro-Scripture
pro-Somalia
pro-South
pro-Southern
pro-Soviet
pro-Spain
pro-Spanish
pro-Sudanese
pro-Sweden
pro-Swedish
pro-Swiss
pro-Switzerland
pro-Syrian
pro-Tunisian
pro-Turkey
pro-Turkish
pro-Unitarian
pro-United States
pro-Uruguayan
pro-Venezuelan
pro-Vietnamese
pro-West
pro-Western
pro-Westerner
pro-Whig
pro-Yugoslav
pro-Yugoslavian
pro-Zionism
pro-Zionist
pro-am
pro-art
pro-budgeting
pro-bus
pro-cathedral
pro-city
pro-co-operation
pro-form
pro-government
pro-immigrationist
pro-infinitive
pro-man
pro-modern
pro-observance
pro-oceanic
pro-ode
pro-oestrous
pro-oestrum
pro-oestrus
pro-oestrys
pro-opera
pro-operation
pro-opic
pro-opium
pro-orthodox
pro-orthodoxal
pro-orthodoxy
pro-ostracal
pro-ostracum
pro-otic
profit-and-loss
profit-building
profit-making
profit-producing
profit-seeking
profit-sharing
profit-taking
profit-yielding
profound idiocy
profitable knowledge
profitable secret
profitable sense
profound sleep
profitable thought
prognostic chart
program clock
program director
program discriminator
program feed
program music
program of action
program of music
program of operation
program picture
programme music
programmed instruction
programmed learning
programming language
progress chart
progress clerk
progress of time
progressive conservative
progressive jazz
progressive proof
progressive school
progressive sorites
progressive tax
progressive taxation
progressive tense
progressive trials
prohibition-proof
prohibitory injunction
project over
projected window
projectile anchor
projectile lathe
projectile rocket
projecting microscope
propeller-jet engine
propelling charge
propelling nozzle
propelling pencil
propenyl alcohol
propenyl group
propenyl radical
proper adjective
proper claim
proper fraction
proper function
proper motion
proper name
proper noun
proper occasion
proper piloting
proper subalgebra
proper subset
proper task
proper thing
proper time
proper to
proper value
propertied person
property damage insurance
property insurance
property line
property man
property master
property owner
property right
property rights
property roll
property tax
property transfer
property-increment tax
property-owning
prophet flower
prophet of doom
prophet-bard
prophet-flower
prophet-king
prophet-painter
prophet-poet
prophet-preacher
prophet-statesman
prophetic revelation
prophetico-historical
prophylactic psychiatry
prophylactic psychology
propio-
propionic acid
propitiatory gift
propjet engine
proportional band
proportional control
proportional counter
proportional ionization chamber
proportional limit
proportional parts
proportional representation
proportional tax
proportioning lever
proposal bond
propose a question
propose to
proposed explanation
propositional calculus
propositional function
propound a question
proprietary colony
proprietary drug
proprietary hospital
proprietary medicine
proprietary name
proprietary rights
proprio motu
props from under one
props from under you
propter hoc
propulsion charge
propulsive duct
propulsive efficiency
propyl alcohol
propyl aldehyde
propylene glycol
propylphenyl acetate
pros and cons
pros-
proscenium arch
proscenium box
proscenium boxes
proscenium stage
prose fiction
prose poem
prose poet
prose poetry
prose rhythm
prose run mad
prose style
prose writer
prosecute a suit against
prosecute at law
prosecute to a conclusion
prosecuting attorney
prosecution-proof
prosodic form
prosodic pattern
prospect glass
prospective glass
prospective-glass
prosperity-proof
prosperous issue
prostate gland
prostatic fluid
prosthetic dentistry
prosthetic group
prostrate before
prostrate yourself
prostrate yourself before
prot-
prote-
protean actor
protected anchorage
protected cruiser
protection forest
protection racket
protective clothing
protective coloration
protective covering
protective custody
protective deck
protective mimicry
protective slope
protective stock
protective system
protective tariff
protective umbrella
protector paravane
protein crystal
protein deficiency
protein factor
protein fever
protein fibers
protein milk
protein plastic
protein shock
protein therapy
protein-free
proteolytic enzyme
protero-
protest against
protest demonstration
protest flag
protest too much
protested bill
proteus animalcule
prothetic vowel
prothomotary apostolic
prothomotary warbler
proto-
protocol sentence
protocol statement
proton gun
proton number
proton reaction
proton-synchrotron
protoxide of nitrogen
protozoan disease
protracted meeting
protruding belly
proud as Lucifer
proud as a peacock
proud bearing
proud flesh
proud-blind
proud-blooded
proud-crested
proud-exulting
proud-glancing
proud-hearted
proud-looking
proud-minded
proud-mindedness
proud-paced
proud-pillared
proud-prancing
proud-quivered
proud-spirited
proud-stomached
provable fact
provascular tissue
prove false
prove out
prove the contrary
prove to be
prove true
prove up
prove your point
proved fact
proverbial saying
province-chancellor
provide a hedge
provide a rationale
provide against
provide against a rainy day
provide capital for
provide for
provide for a rainy day
provide money for
provide the wherewithal
provide with a roof
provided always
provided for
provided school
provided that
provident care
provident club
provident society
provincial court
provincial legislature
provincial parliament
provincial police
provincial tax
proving ground
proving out
provision account
provision of capital
provision tree
provisional government
provisionally accept
provisionally admit
provolone cheese
provost court
provost guard
provost marshal
provost-marsh
prow on
prowl after
prowl car
proximal convoluted tubule
proximate analysis
proximate cause
proxime accessit
proximity fuse
proximity fuze
proximity meter
proxy marriage
proxy statement
proxy voting
prudent administration
prudential administration
prune purple
prune tree
prunes and prisms
pruning hook
pruning saw
pruning shears
prurient interest
prussian blue
prussic acid
pry around
pry into
pry into the future
pry loose from
pry open
pry out
pry pole
psalm book
psalm singer
psalm tone
psalm tune
psammo-
pseud-
pseudo abolitionist
pseudo abstainer
pseudo academy
pseudo acceptance
pseudo accident
pseudo acid
pseudo acquaintance
pseudo actor
pseudo actress
pseudo aesthete
pseudo aestheticism
pseudo affection
pseudo agent
pseudo alliance
pseudo ally
pseudo alumna
pseudo alumnus
pseudo amateur
pseudo analogy
pseudo ancestor
pseudo angel
pseudo animal
pseudo animalism
pseudo announcement
pseudo apology
pseudo applicant
pseudo application
pseudo appointment
pseudo appreciation
pseudo aristocrat
pseudo arrest
pseudo art
pseudo artist
pseudo asceticism
pseudo assertion
pseudo association
pseudo astonishment
pseudo aunt
pseudo author
pseudo authoress
pseudo authorization
pseudo bacillus
pseudo banker
pseudo bankruptcy
pseudo baptism
pseudo bard
pseudo base
pseudo benefactor
pseudo benefactress
pseudo benevolence
pseudo bible
pseudo biographer
pseudo biography
pseudo biology
pseudo bird
pseudo bishop
pseudo boa
pseudo bookcase
pseudo boy
pseudo bride
pseudo broker
pseudo brokerage
pseudo brother
pseudo cancellation
pseudo candidacy
pseudo candidate
pseudo candor
pseudo captive
pseudo capture
pseudo catholic
pseudo catholicism
pseudo census
pseudo champion
pseudo championship
pseudo charity
pseudo chemist
pseudo chemistry
pseudo citizen
pseudo citizenship
pseudo clergy
pseudo clergyman
pseudo clerk
pseudo client
pseudo club
pseudo college
pseudo competitor
pseudo conclusion
pseudo cone
pseudo confession
pseudo confessional
pseudo confirmation
pseudo conflict
pseudo connection
pseudo consent
pseudo conservator
pseudo conversion
pseudo cook
pseudo cordiality
pseudo corporation
pseudo count
pseudo courtesy
pseudo courtier
pseudo cousin
pseudo creditor
pseudo crisis
pseudo critic
pseudo criticism
pseudo crystal
pseudo cult
pseudo cultivation

code
pseudo culture
date
dead
declaration
deficit
delegate
delegation
democracy
deputation
deputy
devotee
devotion
dike
diplomacy
diplomat
distance
distribution
distributor
divination
divine
divinity
doctor
donation
donor

drama

dramatist
duke
earl
economics

economy
editor

editorial

education
educator

election
electorate
emotion
endeavor

enthusiasm

enthusiast
episcopacy
equality
ethics
etymologist
etymology

evangelist
example
exemplar
pseudo experiment
pseudo expert
pseudo exposure
pseudo fabric
pseudo failure
pseudo faith
pseudo fame
pseudo farmer
pseudo farming
pseudo father
pseudo femininity
pseudo feminism
pseudo feminist
pseudo fertilization
pseudo finality
pseudo flatterer
pseudo flattery
pseudo form
pseudo fruit
pseudo generosity
pseudo geniality
pseudo genius
pseudo gentility
pseudo gentleman
pseudo geyser
pseudo ghost
pseudo healer
pseudo heart
pseudo heathen
pseudo hero
pseudo humanism
pseudo humanist
pseudo humanitarian
pseudo husband
pseudo identity
pseudo impartiality
pseudo independence
pseudo information
pseudo insanity
pseudo inspiration
pseudo internationalism
pseudo internationalist
pseudo invalid
pseudo invalidism
pseudo island
pseudo isle
pseudo jaundice
pseudo judge
pseudo judgment
pseudo justice
pseudo knight
pseudo label
pseudo learning
pseudo legality
pseudo legend
pseudo legislation
pseudo legislator
pseudo liberalism
pseudo liberality
pseudo liquidation
pseudo literature
pseudo loan
pseudo lord
pseudo mahogany
pseudo marble
pseudo marquis
pseudo marriage
pseudo martyr
pseudo martyrdom
pseudo masculinism
pseudo masculinity
pseudo masterpiece
pseudo medievalism
pseudo meditation
pseudo member
pseudo membership
pseudo memory
pseudo messenger
pseudo militarism
pseudo minister
pseudo ministry
pseudo miracle
pseudo modesty
pseudo monastery
pseudo monk
pseudo moralist
pseudo morality
pseudo myth
pseudo narcotism
pseudo nationalism
pseudo nobility
pseudo noble
pseudo nymph
pseudo occidentalism
pseudo occupation
pseudo official
pseudo officialism
pseudo orientalism
pseudo owner
pseudo pagan
pseudo parallel
pseudo parasite
pseudo parent
pseudo parson
pseudo participation
pseudo partner
pseudo partnership
pseudo pastor
pseudo pastorate
pseudo patriot
pseudo patriotism
pseudo patron
pseudo patronage
pseudo payment
pseudo peasant
pseudo peasantry
pseudo philanthropist
pseudo philanthropy
pseudo philologist
pseudo philology
pseudo philosopher
pseudo philosophy
pseudo physician
pseudo piety
pseudo pigmentation
pseudo poet
pseudo poetess
pseudo poetry
pseudo politician
pseudo politics
pseudo popularity
pseudo possession
pseudo possessor
pseudo poverty
pseudo precedent
pseudo prescription
pseudo presentiment
pseudo priest
pseudo priesthood
pseudo prince
pseudo principality
pseudo profession
pseudo professor
pseudo prohibition
pseudo prohibitionist
pseudo prophecy
pseudo prophet
pseudo prophetess
pseudo prosperity
pseudo psychologist
pseudo psychology
pseudo purity
pseudo ray
pseudo realism
pseudo recognition
pseudo recollection
pseudo reconciliation
pseudo reform
pseudo reformation
pseudo reformatory
pseudo reformer
pseudo registration
pseudo relation
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pseudo relative
pseudo religion
pseudo republic
pseudo residence
pseudo resident
pseudo resignation
pseudo reversal
pseudo rheumatism
pseudo romanticism
pseudo royal
pseudo royalty
pseudo sacrilege
pseudo saint
pseudo saintliness
pseudo sanctity
pseudo sanctuary
pseudo satire
pseudo satirist
pseudo scholar
pseudo scholarship
pseudo science
pseudo scientist
pseudo sensation
pseudo sense
pseudo sensibility
pseudo servility
pseudo servitor
pseudo servitude
pseudo signature
pseudo siphon
pseudo slavery
pseudo socialism
pseudo socialist
pseudo specialist
pseudo specialty
pseudo specter
pseudo spirit
pseudo spirituality
pseudo statement
pseudo stem
pseudo student
pseudo subtlety
pseudo suicide
pseudo symptom
pseudo temperament
pseudo theft
pseudo tribe
pseudo tribulation
pseudo tribute
pseudo university
pseudo virgin
pseudo witness
pseudo worship
pseudo zeal
pseudo-
pseudo-African
pseudo-American
pseudo-Argentinean
pseudo-Argentinian
pseudo-Aristotelian
pseudo-Aryan
pseudo-Assyrian
pseudo-Australian
pseudo-Austrian
pseudo-Babylonian
pseudo-Baptist
pseudo-Belgian
pseudo-Bohemian
pseudo-Bolivian
pseudo-Brahman
pseudo-Brazilian
pseudo-Buddhist
pseudo-Bulgarian
pseudo-Canadian
pseudo-Carthaginian
pseudo-Catholic
pseudo-Chilean
pseudo-Chinese
pseudo-Christian
pseudo-Ciceronian
pseudo-Dantesque
pseudo-Democratic
pseudo-Dutch
pseudo-East Indian
pseudo-Egyptian
pseudo-Elizabethan
pseudo-English
pseudo-Episcopalian
pseudo-European
pseudo-French
pseudo-Georgian
pseudo-German
pseudo-Germanic
pseudo-Gothic
pseudo-Grecian
pseudo-Greek
pseudo-Hindu
pseudo-Homeric
pseudo-Hungarian
pseudo-Incan
pseudo-Indian
pseudo-Iranian
pseudo-Irish
pseudo-Italian
pseudo-Japanese
pseudo-Mayan
pseudo-Messianic
pseudo-Methodist
pseudo-Mexican
pseudo-Miltonic
pseudo-Mohammedan
pseudo-Mohammedanism
pseudo-Mongolian
pseudo-Moslem
pseudo-Muslem
pseudo-Muslim
pseudo-Norwegian
pseudo-Panamanian
pseudo-Persian
pseudo-Polish
pseudo-Presbyterian
pseudo-Republican
pseudo-Roman
pseudo-Russian
pseudo-Semitic
pseudo-Serbian
pseudo-Shakespearean
pseudo-Shakespearian
pseudo-Socratic
pseudo-Spanish
pseudo-Swedish
pseudo-Turkish
pseudo-Vergilian
pseudo-Victorian
pseudo-Virgilian
pseudo-carp
pseudo-catholic
pseudo-christ
pseudo-code
pseudo-hieroglyphic
pseudo-intransitive
pseudo-ionone
pseudo-isometric
pseudo-occidental
pseudo-orthorhombic
pseudo-osteomalacia
pseudo-papal
pseudo-unisepatte
pseudo-urate
pseudo-urea
pseudo-urate
pseudoaortic insufficiency
pseudologia phantastica
pseudometric space
pseudonymous literature
psi particle
psi-o-
psych out
psych-
psychasthenic reaction
psyche knot
psyched up
psychedelic drug
psychedelic show
psychiatric evaluation
psychiatric ward
psychic apparatus
psychic bid
psychic blindness
psychic determinism
psychic energizer
psychic energy
psychic epilepsy
psychic income
psychic monism
psychic phenomena
psychic research
psychical phenomena
psychical research
psychically blind
psycho-
psycho-asthenics
psycho-physic
psycho-physical
psycho-therapeutic
psychoactive drug
psychoactive drugs
psychoanalytic method
psychoanalytic theory
psychoanalytic therapy
psychogenic disease
psychological block
psychological complex
psychological conditioning
psychological counseling
psychological defenses
psychological dependence
psychological dictionary
psychological evaluation
psychological fixation
psychological hedonism
psychological logic
psychological medicine
psychological moment
psychological novel
psychological primary
psychological profile
psychological screening
psychological stress
psychological support
psychological surrogate
psychological symbol
psychological test
psychological time
psychological warfare
psychologically addictive
psychology of depths
psychomotor disturbance
psychomotor epilepsy
psychoneurotic disorder
psychopathia martialis
psychopathia sexualis
psychopathic case
psychopathic condition
psychopathic hospital
psychopathic personality
psychopathic ward
psychophysical parallelism
psychosexual disorder
psychosocial medicine
psychosomatic disease
psychosomatic medicine
psychosomatic symptom
psychotic personality
psychro-
psychrometric chart
psyllium seed
pterid-
pterido-
ptero-
pteroic acid
pteroylglutamic acid
pteroylmonoglutamic acid
pterygo-
pterygoid bone
pterygoid process
ptilo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
pubic hair
public acclaim
public accountant
public act
public address
public administration
public assistance
public bar
public baths
public belief
public bill
public charge
public company
public consciousness
public convenience
public corporation
public crib
public debt
public defender
public dishonor
public domain
public enemy
public enterprise
public entertainer
public eye
public figure
public gallery
public health
public health doctor
public health medicine
public health nurse
public health physician
public hospital
public house
public image
public international law
public knowledge
public law
public lending right
public librarian
public library
public man
public motive
public notice
public nuisance
public official
public opinion
public orator
public ownership
public park
public policy
public press
public print
public prosecutor
public records
public relations
public relations man
public relations officer
public report
public sale
public school
public servant
public service
public speaker
public speaking
public speech
public spirit
public square
public statute
public telephone
public television
public till
public tit
public tranquility
public treasury
public trough
public utilities
public utility
public walk
public welfare
public works
public worship
public-address system
public-liability insurance
public-minded
public-mindedness
public-official bond
public-opinion poll
public-school
public-service corporation
public-spirited
public-spiritedly
public-spiritedness
public-utility
public-voiced
publicity agent
publicity law
publicity man
publicity manager
publicity story
publicity-proof
publish a manifesto
publish the banns
publisher's catalog
publisher's list
publishing house
publishing industry
pubo-
puce oxide
puck-carrier
pucker up
pudding bag
pudding boom
pudding club
pudding face
pudding grass
pudding sleeve
pudding spar
pudding stone
pudding time
pudding-faced
pudding-pie
pudding-pipe tree
pudding-shaped
puddle ball
puddle bar
puddle duck
puddle rolls
puddle wall
puddling furnace
pudendal ulcer
puerperal fever
puerperal psychosis
puff adder
puff and blow
puff box
puff like a grampus
puff of air
puff of smoke
puff of wind
puff paste
puff pastry
puff pipe
puff shark
puff sleeve
puff up
puff-adder
puff-ball
puff-bird
puff-fish
puff-leg
puff-paste
puff-puff
puffed rice
puffed up
puffed wheat
puffer pipe
puffing up
pug dog
pug head
pug knife
pug mill
pug moth
pug nose
pug piling
pug-faced
pug-nosed
pug-pile
puisne judge
puisne justice
puke-stocking
pukka sahib
puling infant
pull a blooper
pull a bluff
pull a boner
pull a boo-boo
pull a face
pull a fast one
pull a fast one on
pull a gun on
pull a lone oar
pull a long face
pull a proof
pull about
pull about your ears
pull an oar
pull apart
pull around
pull at the heartstrings
pull at the leash
pull away
pull back
pull box
pull broach
pull by the sleeve
pull clear
pull date
pull different ways
pull down
pull fo
pull for
pull in
pull in pieces
pull in your horns
pull lamp holder
pull off
pull on
pull out
pull out all the stops
pull out of it
pull over
pull pin
pull punches
pull rank
pull ropes
pull round
pull station
pull strap
pull strings
pull switch
pull the forelock
pull the strings
pull the wires
pull the wool over your eyes
pull through
pull to pieces
pull together
pull towards
pull up
pull up by the roots
pull up short
pull up stakes
pull wires
pull you up short
pull your leg
pull your own weight
pull your rank
pull your teeth
pull your weight
pull your wits together
pull yourself together
pull-
pull-back
pull-down
pull-drive
pull-in
pull-in torque
pull-off
pull-on
pull-on sweater
pull-out
pull-out torque
pull-over
pull-through
pull-through torque
pull-up
pull-up chair
pullboat logging
puller-in
puller-out
pullet disease
pulley block
pulley chain
pulley frame
pulley lathe
pulley oiler
pulley stile
pulley tackle
pulley tap
pulley-shaped
pulling boat
pulling down
pulling out
pulling power
pulling together
pulling-out
pullorum disease
pullulate with
pulley-haul
pulmonary artery
pulmonary emphysema
pulmonary insufficiency
pulmonary phthisis
pulmonary stenosis
pulmonary tuberculosis
pulmonary valve
pulmonary vein
pulmoni-
pulmo-
pulp canal
pulp canal therapy
pulp canal treatment
pulp cavity
pulp chamber
pulp engine
pulp lead
pulp machine
pulp magazine
pulp nodule
pulp plaster
punch press
punch spoon
punch the clock
punch-and-judy show
punch-ball
punch-bowl
punch-card data
punch-drunk
punch-hole
punch-marked
punch-up
punched card
punched cards
punched tape
punching bag
punching machine
punching press
punctuation mark
punctuation marks
puncture vine
puncture voltage
puncture your balloon
pungent meadow grass
pungle up
punish yourself
punishment of Tantalus
punishment that fits the crime
punishment-proof
punitivive damages
punitivive sanction
punk kid
punk oak
punk rock
punk tree
punkah wallah
punner bar
punt formation
punt gun
punt shooter
punt shooting
punto reverso
pup tent
pupa shell
pupa-shaped
pupil hour
pupil load
pupil teacher
pupil teachery
pupil-teacherdom
pupil-teachership
puppet government
puppet play
puppet player
puppet regime
puppet show
puppet valve
puppet-play
puppet-show
puppet-valve
puppy drum
puppy fat
puppy love
puppy-dog
pur sang
pur-
purchase book
purchase journal
purchase ledger
purchase money
purchase money bond
purchase record
purchase shears
purchase tax
purchase-money
purchasing agent
purchasing power
purchasing public
pure and simple
pure chemistry
pure color
pure culture
pure cussedness
pure democracy
pure form
pure imaginary
pure imaginary number
pure in heart
pure line
pure mathematics
pure mechanics
pure science
pure white
pure-blooded
pure-bosomed
pure-dye
pure-eyed
purple sandpiper
purple shore crab
purple trillium
purple willow herb
purple wood grass
purple wood sorrel
purple wreath
purple-awned
purple-awned oat grass
purple-backed
purple-beaming
purple-berried
purple-black
purple-blue
purple-brown
purple-clad
purple-coated
purple-colored
purple-crimson
purple-dawning
purple-dyeing
purple-eyed
purple-faced
purple-flowered
purple-fringed
purple-fringed orchid
purple-glowing
purple-green
purple-headed
purple-hued
purple-leaved
purple-nosed
purple-red
purple-robed
purple-rose
purple-skirted
purple-spiked
purple-spotted
purple-staining
purple-stemmed
purple-streaked
purple-streaming
purple-tailed
purple-tipped
purple-top
purple-topped
purple-veined
purple-vested
purple-yellow
purpose clause
purpose of
purpose to yourself
purpose-built
purpura hemorrhagica
puppureo-
purre maw
purse atomizer
purse bearer
purse boat
purse crab
purse cutter
purse cutting
purse isinglass
purse line
purse maker
purse net
purse pride
purse race
purse ring
purse rope
purse seine
purse seiner
purse silk
purse snatcher
purse snatching
purse spider
purse string
purse strings
purse weight
purse-bearer
purse-eyed
purse-lined
purse-lipped
purse-mad
purse-pinched
purse-pride
purse-proud
purse-shaped
purse-snatching
purse-string
purse-string suture
purse-swollen
purslane speedwell
purslane tree
pursuant to
pursue a policy of
pursue a strategy
pursue an inquiry
pursue the arts of peace
pursue your education
pursuit airplane
pursuit pendulum
pursuit plane
pursuit squadron
pus basin
pus cell
pus pan
push about
push along
push around
push aside
push back
push bicycle
push bolt
push broach
push broom
push button
push car
push cycle
push down
push drill
push fit
push forward
push from your thoughts
push hoe
push in
push moraine
push off
push on
push onward
push out
push out of place
push shot
push the panic button
push the pen
push the pencil
push through
push to one side
push to the wall
push up daisies
push upon
push your luck
push your way
push-
push-bike
push-button
push-button control
push-button plant
push-button telephone
push-button warfare
push-down
push-off
push-out chuck
push-pin
push-pull
push-pull microphone
push-start
push-up
pusher airplane
pusher grade
pusher plane
pusher propeller
pushing down
pushing under
pushing up daisies
puss clover
puss in the corner
puss moth
puss-cat
puss-moth
puzzle-gutted
pussy clover
pussy wants a corner
pussy willow
pussy's toe
pussy's toes
pussy-foot
pustula maligna
put a bold face on
put a bold face upon
put a bridle on your tongue
put a bug in your ear
put a construction on
put a crimp in
put a curse on
put a duty on
put a false appearance upon
put a false construction on
put a false construction upon
put a figure on
put a flea in your ear
put a gloss upon
put a good face upon
put a half nelson on
put a hex on
put a juj on
put a mark on
put a penalty on
put a period to
put a question to
put a spoke in your wheel
put a spoke in your wheels
put a stop to
put a tuck in your tail
put about
put across
put all your eggs in one basket
put all your strength into
put an embargo on
put an end to
put an end to yourself
put and call
put apart
put aside
put asunder
put at a disadvantage
put at ease
put at your disposal
put away
put away for
put away thought
put back
put beef into it
put before
put behind one
put between
put beyond the pale
put by
put down
put down to
put faith in
put for
put forth
put forth buds
put forth leaves
put forth your strength
put forward
put heads together
put hep
put hip
put in
put in a call
put in a false light
put in a good word for
put in a hole
put in a new light
put in a nutshell
put in a spot
put in a trance
put in a word
put in a word for
put in an appearance
put in an order
put in an order for
put in black and white
put in bodily fear
put in commission
put in condition
put in danger
put in fear
put in for
put in force
put in good humor
put in hock
put in irons
put in jeopardy
put in mind
put in mothballs
put in motion
put in operation
put in opposition
put in order
put in pawn
put in phase
put in place
put in plain English
put in plain words
put in practice
put in proper fore-and-aft trim
put in remembrance
put in repair
put in requisition
put in shape
put in suit
put in the bag
put in the foreground
put in the minutes
put in the place of
put in the right
put in time
put in trim
put in tune
put in words
put in words of one syllable
put in working order
put in writing
put in your bad books
put in your black books
put in your head
put in your oar
put in your two cents
put in your two cents worth
put into
put into a flutter
put into a gas
put into effect
put into execution
put into port
put into practice
put into requisition
put into shape
put into the hands of
put into the picture
put into your head
put it
put it all behind one
put it all behind you
put it away
put it in few words
put it out of your thoughts
put it to
put it up to
put life into
put money in
put new life into
put next to
put obeah on
put off
put off mortality
put off the track
put on
put on a bold face
put on a burst of speed
put on a business basis
put on a business footing
put on a drive for
put on a false front
put on a false scent
put on a front
put on a harbor furl
put on a high
put on a pedestal
put on a show
put on airs
put on an act
put on an allowance
put on an even keel
put on blinders
put on edge
put on ice
put on immortality
put on long pants
put on long trousers
put on more sail
put on more speed
put on mourning
put on paper
put on parole
put on report
put on sail
put on side
put on steam
put on tape
put on the Index
put on the acid
put on the agenda
put on the air
put on the alert
put on the back burner
put on the block
put on the brakes
put on the dog
put on the drag
put on the feed bag
put on the gloves with
put on the grill
put on the map
put on the market
put on the new man
put on the rack
put on the record
put on the retired list
put on the right track
put on the ritz
put on the scales
put on the shelf
put on the soft pedal
put on the spot
put on the stage
put on the stand
put on the style
put on the track
put on to
put on to something hot
put on trial
put on weight
put on your considering cap
put on your feet
put on your guard
put on your thinking cap
put one on
put one on guard
put one's heart in one's mouth
put option
put out
put out a feeler
put out at interest
put out bag and baggage
put out buds
put out leaves
put out of action
put out of breath
put out of business
put out of commission
put out of countenance
put out of court
put out of existence
put out of gear
put out of joint
put out of mind
put out of order
put out of place
put out of reach
put out of sight
put out of the way
put out of your head
put out of your mind
put out of your misery
put out of your thoughts
put out the welcome mat
put out to grass
put out to pasture
put out to sea
put over
put over against
put paid to
put pep into it
put pressure on
put price
put queries
put right
put six feet under
put somebody in his or her place
put someone on
put something across
put something aside
put something in the pot
put something over
put stock in
put straight
put teeth in
put the bee on
put the best color on
put the best face upon
put the bite on
put the blame on
put the cart before the horse
put the damper on
put the evil eye on
put the fear of God into
put the finger on
put the finisher on
put the finishing strokes on
put the finishing touches on
put the helm hard over
put the helm to leeward
put the helm up
put the jinx on
put the kibosh on
put the lid on
put the lid on it
put the pressure on
put the right foot forward
put the rudder amidships
put the rudder hard left
put the rudder hard over
put the rudder hard right
put the screw on
put the screw to
put the screws on
put the screws to
put the settler on
put the shot
put the skids to
put the skids under
put the touch on
put the worst face upon
put through
put through a deal
put through channels
put through the grind
put through the mill
put through the third degree
put to
put to advantage
put to bed
put to choice
put to death
put to flight
put to inconvenience
put to it
put to music
put to one side
put to press
put to rights
put to rout
put to school
put to sea
put to shame
put to silence
put to sleep
put to the blush
put to the proof
put to the question
put to the rack
put to the sword
put to the test
put to torture
put to trial
put to trouble
put to use
put to vote
put to your last shifts
put to your oath
put to your shifts
put to your wit's end
put together
put trust in
put two and two together
put under
put under a spell
put under an injunction
put under an interdict
put under an interdiction
put under an obligation
put under arrest
put under lock and key
put under oath
put under restraint
put under surveillance
put under the ban
put under the yoke
put up
put up a bluff
put up a bold front
put up a false front
put up a fight
put up a front
put up a howl
put up a job
put up a squawk
put up a struggle
put up an argument
put up as collateral
put up at
put up for auction
put up for sale
put up no barriers
put up the money
put up the shutters
put up the spout
put up to
put up with
put up with it
put up your hair
put upon
put upon oath
put upon record
put upon your mettle
put violently
put way upon
put with
put words in your mouth
put you in mind of
put you in the picture
put you in your place
put you on cloud nine
put you on top of the world
put you out
put you out of your misery
put you through your paces
put your Irish up
put your John Hancock on
put your arms around
put your back into
put your back into it
put your back to
put your back to the wall
put your back up
put your best foot forward
put your bristles up
put your cards on the table
put your cross on
put your dander up
put your eyes out
put your finger on
put your foot down
put your foot down on
put your foot in it
put your foot in your mouth
put your fur up
put your good name in jeopardy
put your hair up
put your hand to
put your hand to the plow
put your hands in your pockets
put your hands on
put your head in a lion's mouth
put your heart into
put your life on the line
put your mark on
put your mind at rest on
put your mind to
put your money on the line
put your monkey up
put your nose out of joint
put your pride in your pocket
put your shoulder to the wheel
put your teeth on edge
put your trust in
put your trust in God
put your two cents in
put your veto upon
put your weight in the scale
put your whole soul in
put yourself between disputants
put yourself down
put yourself down for
put yourself forward
put yourself in a spot
put yourself in another’s shoes
put yourself in the hands of
put yourself out
put yourself out of court
put yourself out of the way
put yourself outside of
put yourself upon the
put zip into it
put-and-take
put-down
put-off
put-on
put-out
put-put
put-putter
put-up
put-up job
put-up market
put-upon
putative marriage
putrid matter
putt-putt
putter-forth
putter-in
putter-off
putter-on
putter-out
putter-through
putter-up
putting away
putting cleek
putting down
putting green
putting in
putting in order
putting on
putting on airs
putting out
putting out the eyes
putting stone
putting the best color on
putting together
cutting two and two together
putting yourself between
putting-off
putting-stone
putty coat
putty eye
putty gloss
putty in your hands
putty knife
putty powder
putty-colored
putty-faced
putty-jointed
putty-looking
putty-powdered
putty-stopped
puzzle box
puzzle canon
puzzle lock
puzzle out
puzzle over
puzzle-brain
puzzle-cap
puzzle-headed
puzzle-monkey
puzzle-wit
puzzling problem
py-
pycno-
pye-dog
pygmy glider
pygmy weasel
pygmy-minded
pygo-
pyloro-
pyo-
pyogenic infection
pyorrhoea alveolaris
pyorrhoea alveolaris
pyr-
pyramid flower
pyramid plant
pyramid selling
pyramid shell
pyramid-shaped
pyramidal number
pyramidal peak
pyramidal roof
pyramidal tent
pyrethrin I
pyrethrin II
pyrethrum yellow
pyreto-
pyrimidin base
pyrite type
pyrite yellow
pyrito-
pyritoedal group
pyro-
pyro-acid
pyrogallic acid
pyrogallol monoacetate
pyroligneous acid
pyroligneous alcohol
pyroligneous spirit
pyrometer cone
pyrometric bead
pyrometric cone
pyromucic aldehyde
pyrophosphoric acid
pyroracemic acid
pyrosulfuric acid
pyrosulphuric acid
pyrotechnic sponge
pyroxene group
pyroxylin plastic
pyrrhic victory
pyrrole red
pyruvic acid
pyruvic acid
pyruvic aldehyde
pyx chest
pyx cloth
pyx veil
pyx-jury
q fever
q v
q-boat
qua-bird
quack doctor
quack grass
quack remedy
quack-quack
quad crown
quad demy
quad large
quad line
quad royal
quad small
quadrant compass
quadrant electrometer
quadrant plate
quadruphonic sound system
quadrate cross
quadratic equation
quadratic form
quadratic formula
quadratic residue
quadrato-
quadrature component
quadrature of the circle
quadrennial circus
quadri-
quadril-invariant
quadric surface
quadrilateral spinnaker
quadrille ruling
quadrum merum
quadru-
quadruple counterpoint
quadruple fugue
quadruple time
quadruple-expansion
quadruplex telegraphy
quaff the bitter cup
quai d’orsay
quail brush
quail call
quail dove
quail hawk
quail pipe
quail snipe
quail-brush
quaint-costumed
quaint-eyed
quaint-felt
quaint-looking
quaint-notioned
quaint-shaped
quaint-spoken
quaint-stomached
quaint-witty
quaint-worded
quake grass
quake in your boots
quake in your shoes
quake like an aspen leaf
quake ooze
quaker gun
quaker meeting
quaker moth
quaker-colored
quaker-ladies
quaking aspen
quaking grass
quaking-grass
qualified negative
qualified veto
qualifying examination
qualitative analysis
quality binding
quality control
quality curve
quality factor
quality loop
quality stock
quality-control inspector
qualm of conscience
qualm-sick
quam libet
quandong nut
quantitative analysis
quantitative inheritance
quantitative meter
quantity control
quantity mark
quantity production
quantity surveying
quantity surveyor
quantity theorist
quantity theory
quantity theory of money
quantum chromodynamics
quantum electronics
quantum field theory
quantum liquid
quantum mechanics
quantum number
quantum optics
quantum statistics
quantum sufficit
quantum theory
quantum-mechanical
quarantine anchorage
quarantine flag
quarantine period
quare impedit
quarrel over
quarry bed
quarry face
quarry light
quarry miner
quarry out
quarry tile
quarry-faced
quarry-rid
quarrystone bond
quart major
quart minor
quart pot
quart-pot
quartal harmony
quarter ail
quarter at
quarter badge
quarter bar
quarter belt
quarter bend
quarter berth
quarter bill
quarter binding
quarter blanket
quarter block
quarter board
quarter boards
quarter boot
quarter box
quarter butt
quarter cask
quarter crack
quarter day
quarter deck
quarter dollar
quarter eagle
quarter evil
quarter face
quarter fast
quarter gallery
quarter galley
quarter-hoop
quarter-horse race
quarter-hour
quarter-inch
quarter-left
quarter-mile
quarter-miler
quarter-minute
quarter-month
quarter-moon
quarter-phase
quarter-pierced
quarter-pint
quarter-pound
quarter-right
quarter-run
quarter-second
quarter-sessions
quarter-sheet
quarter-size
quarter-turn stair
quarter-vine
quarter-wave
quarter-witted
quarter-yard
quarter-year
quarter-yearly
quarterback sneak
quarterly meeting
quarterly payments
quartermaster corps
quartermaster sergeant
quartern loaf
quartet table
quarto-centenary
quartz battery
quartz crystal
quartz flint
quartz glass
quartz lamp
quartz mill
quartz mining
quartz plate
quartz porphyry
quartz rock
quartz sand
quartz schist
quartz vein
quartz wedge
quartz-basalt
quartz-crystal clock
quartz-diorite
quartz-free
quartz-iodine lamp
quartz-light therapy
quartz-monzonite
quartz-syenite
quash the charge
quash the indictment
quashing of the charge
quashing of the indictment
quasi accident
quasi acquaintance
quasi actor
quasi adjective
quasi adjustment
quasi admiration
quasi adoption
quasi advantage
quasi adverb
quasi advice
quasi advocate
quasi affection
quasi agreement
quasi alarm
quasi alliance
quasi alumnus
quasi amateur
quasi amendment
quasi amusement
quasi angel
quasi animal
quasi answer
quasi apology
quasi appeal
quasi application
quasi appointment
quasi appreciation
quasi approval
quasi architect
quasi argument
quasi aristocracy
quasi aristocrat
quasi army
quasi arrangement
quasi art
quasi certificate
quasi champion
quasi charity
quasi cheer
quasi chemistry
quasi circulation
quasi citizen
quasi civilization
quasi clairvoyance
quasi client
quasi climax
quasi club
quasi co-operation
quasi collapse
quasi collateral
quasi collection
quasi collector
quasi college
quasi colloquial
quasi combat
quasi comedy
quasi comfort
quasi command
quasi compact
quasi competition
quasi competitor
quasi compliance
quasi compliment
quasi comprehension
quasi compromise
quasi concern
quasi concession
quasi conclusion
quasi conference
quasi confession
quasi confinement
quasi confirmation
quasi conflict
quasi conformance
quasi congratulation
quasi congress
quasi conjunction
quasi connection
quasi conquest
quasi conscience
quasi consent
quasi consequence
quasi consideration
quasi consignment
quasi consolation
quasi consolidation
quasi constitution
quasi construction
quasi consulation
quasi consumption
quasi contempt
quasi contest
quasi continent
quasi continuation
quasi contract
quasi contrast
quasi contribution
quasi control
quasi convenience
quasi convention
quasi conversation
quasi conveyance
quasi conviction
quasi cook
quasi copula
quasi corporateness
quasi corporation
quasi correction
quasi council
quasi coupon
quasi court
quasi courtesy
quasi cousin
quasi craft
quasi creation
quasi credit
quasi creditor
quasi crime
quasi crisis
quasi criticism
quasi cultivation
quasi culture
quasi currency
quasi customer
quasi damage
quasi debt
quasi decision
quasi declaration
quasi decoration
quasi dedication
quasi default
quasi defeat
quasi defiance
quasi deficit
quasi definition
quasi dejection
quasi delegate
quasi delict
quasi demand
quasi democrat
quasi deposit
quasi depreciation
quasi depression
quasi deputy
quasi despair
quasi destination
quasi destruction
quasi detention
quasi development
quasi devil
quasi devotion
quasi diamond
quasi difference
quasi dinner
quasi diplomacy
quasi disadvantage
quasi disappearance
quasi disaster
quasi discipline
quasi discovery
quasi discrimination
quasi disgrace
quasi disgust
quasi dismissal
quasi distress
quasi distribution
quasi diversion
quasi division
quasi dominion
quasi donation
quasi doubt
quasi drama
quasi earnings
quasi easement
quasi economy
quasi education
quasi election
quasi emperor
quasi emphasis
quasi perusal
quasi philosopher
quasi pity
quasi plea
quasi pleasure
quasi pledge
quasi plenty
quasi poem
quasi policy
quasi politician
quasi possession
quasi poverty
quasi power
quasi praise
quasi preference
quasi prejudice
quasi preparation
quasi prepositional
quasi pressure
quasi prestige
quasi prevention
quasi principal
quasi principle
quasi prisoner
quasi privilege
quasi problem
quasi product
quasi profit
quasi progress
quasi prohibition
quasi promise
quasi prophecy
quasi proposal
quasi prosecution
quasi prosperity
quasi protection
quasi provocation
quasi punishment
quasi pupil
quasi purchase
quasi purity
quasi pursuit
quasi qualification
quasi quarantine
quasi quarrel
quasi quotation
quasi reality
quasi realization
quasi reason
quasi rebellion
quasi receipt
quasi recognition
quasi recollection
quasi reconciliation
quasi record
quasi recreation
quasi reduction
quasi reference
quasi refinement
quasi reform
quasi refusal
quasi registration
quasi rejection
quasi relief
quasi religion
quasi remedy
quasi reminder
quasi remittance
quasi remorse
quasi renewal
quasi rent
quasi repair
quasi replacement
quasi reply
quasi report
quasi representative
quasi request
quasi requirement
quasi rescue
quasi residence
quasi resident
quasi resistance
quasi response
quasi restoration
quasi result
quasi retirement
quasi revolution
quasi reward
quasi rival
quasi romance
quasi safety
quasi sagacity
quasi saint
quasi sale
quasi salvation
quasi sanction
quasi sarcasm
quasi satisfaction
quasi savings
quasi scarcity
quasi scholar
quasi science
quasi search
quasi sentence
quasi sentiment
quasi seriousness
quasi service
quasi settlement
quasi severalty
quasi shortage
quasi signature
quasi sincerity
quasi skill
quasi slander
quasi socialist
quasi soldier
quasi solution
quasi sonnet
quasi sovereign
quasi space
quasi specialist
quasi sphere
quasi spirit
quasi sport
quasi standard
quasi starvation
quasi statesman
quasi strike
quasi student
quasi subject
quasi submission
quasi success
quasi suggestion
quasi supervision
quasi support
quasi suppression
quasi sympathy
quasi system
quasi teacher
quasi temperance
quasi testimony
quasi thanks
quasi threat
quasi toleration
quasi tradition
quasi tragedy
quasi translation
quasi trial
quasi triumph
quasi trustee
quasi truth
quasi tyranny
quasi union
quasi unity
quasi university
quasi usufruct
quasi utility
quasi vacation
quasi valuation
quasi value
quasi verdict
quasi victim
quasi victory
quasi vigilance
quasi violation
quasi violence
quasi virtue
quasi vocation
quasi volunteer
quasi wager
quasi war
quasi warrant
quasi weakling
quasi wealth
quasi whisper
quasi wisdom
quasi witness
quasi wonder
quasi worship
quasi zeal
quasi-
quasi-American
quasi-Americanized
quasi-English
quasi-French
quasi-German
quasi-Grecian
quasi-Greek
quasi-Jacobean
quasi-Japanese
quasi-Latin
quasi-Spanish
quasi-absolute
quasi-absolutely
quasi-academic
quasi-academically
quasi-acceptance
quasi-accepted
quasi-accidental
quasi-accidentally
quasi-acquainted
quasi-active
quasi-actively
quasi-adequate
quasi-adequately
quasi-adjusted
quasi-admire
quasi-admired
quasi-admiring
quasi-adopt
quasi-adopted
quasi-adult
quasi-advantageous
quasi-advantageously
quasi-affectionate
quasi-affectionately
quasi-affirmative
quasi-affirmatively
quasi-alternating
quasi-alternatingly
quasi-alternative
quasi-alternatively
quasi-amateurish
quasi-amateurishly
quasi-amiable
quasi-amiably
quasi-amusing
quasi-amusingly
quasi-ancient
quasi-anciently
quasi-angelic
quasi-angelically
quasi-antique
quasi-anxious
quasi-anxiously
quasi-apologetic
quasi-apologetically
quasi-appealing
quasi-appealingly
quasi-appointed
quasi-appropriate
quasi-appropriately
quasi-artistic
quasi-artistically
quasi-aside
quasi-asleep
quasi-athletic
quasi-athletically
quasi-attempt
quasi-audible
quasi-audibly
quasi-authentic
quasi-authentically
quasi-authorized
quasi-automatic
quasi-automatically
quasi-awful
quasi-awfully
quasi-bad
quasi-bankrupt
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quasi-basically
quasi-beneficial
quasi-beneficially
quasi-benevolent
quasi-benevolently
quasi-biographical
quasi-biographically
quasi-blind
quasi-blindly
quasi-brave
quasi-bravely
quasi-brilliant
quasi-brilliantly
quasi-bronze
quasi-brotherly
quasi-calm
quasi-calmly
quasi-candid
quasi-candidly
quasi-capable
quasi-capably
quasi-careful
quasi-carefully
quasi-characteristic
quasi-characteristically
quasi-charitable
quasi-charitably
quasi-cheerful
quasi-cheerfully
quasi-civil
quasi-civilly
quasi-classic
quasi-classically
quasi-clerical
quasi-clerically
quasi-collegiate
quasi-colloquial
quasi-colloquially
quasi-comfortable
quasi-comfortably
quasi-comic
quasi-comical
quasi-comically
quasi-commanding
quasi-commandingly
quasi-commercial
quasi-commercialized
quasi-commercially
quasi-common
quasi-commonly
quasi-compact
quasi-compactly
quasi-competitive
quasi-competitively
quasi-complete
quasi-completely
quasi-complex
quasi-complexly
quasi-compliant
quasi-compliantly
quasi-complimentary
quasi-compound
quasi-comprehensive
quasi-comprehensively
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quasi-compromisingly
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quasi-compulsively
quasi-compulsorily
quasi-compulsory
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quasi-confidential
quasi-confidentially
quasi-confidently
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quasi-congenially
quasi-congratulatory
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quasi-connectively
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quasi-conscientiously
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quasi-consciously
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quasi-consequentially
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quasi-conservatively
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quasi-considerately
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quasi-consistently
quasi-consolidated
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quasi-constantly
quasi-constitutional
quasi-constitutionally
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quasi-constructively
quasi-consuming
quasi-content
quasi-contented
quasi-contentedly
quasi-continual
quasi-continually
quasi-continuous
quasi-continuously
quasi-contolled
quasi-contract
quasi-contrarily
quasi-contrary
quasi-contrasted
quasi-controlling
quasi-convenient
quasi-conveniently
quasi-conventional
quasi-conventionally
quasi-converted
quasi-conveyed
quasi-convinced
quasi-cordial
quasi-cordially
quasi-correct
quasi-correctly
quasi-courteous
quasi-courteously
quasi-craftily
quasi-crafty
quasi-criminal
quasi-criminally
quasi-critical
quasi-critically
quasi-cultivated
quasi-cunning
quasi-cunningly
quasi-cynical
quasi-cynically
quasi-damaged
quasi-dangerous
quasi-dangerously
quasi-daring
quasi-daringly
quasi-deaf
quasi-deafening
quasi-deafly
quasi-decorated
quasi-defeated
quasi-defiant
quasi-defiantly
quasi-definite
quasi-definitely
quasi-deify
quasi-dejected
quasi-dejectedly
quasi-deliberate
quasi-deliberately
quasi-delicate
quasi-delicately
quasi-delighted
quasi-delightedly
quasi-demanding
quasi-demandingly
quasi-democratic
quasi-democratically
quasi-dependence
quasi-dependent
quasi-dependently
quasi-depressed
quasi-desolate
quasi-desolately
quasi-desperate
quasi-desperately
quasi-despondent
quasi-despondently
quasi-determine
quasi-devoted
quasi-devotedly
quasi-difficult
quasi-difficultly
quasi-dignified
quasi-dignifying
quasi-diplomatic
quasi-diplomatically
quasi-disadvantageous
quasi-disadvantageously
quasi-disastrous
quasi-disastrously
quasi-discreet
quasi-discreetly
quasi-discriminating
quasi-discriminatingly
quasi-disgraced
quasi-disgusted
quasi-disgustedly
quasi-distant
quasi-distantly
quasi-distressed
quasi-diverse
quasi-diversely
quasi-diversified
quasi-divided
quasi-dividedly
quasi-double
quasi-doubly
quasi-doubtful
quasi-doubtfully
quasi-dramatic
quasi-dramatically
quasi-dreadful
quasi-dreadfully
quasi-dumb
quasi-dumbly
quasi-duplicate
quasi-dutiful
quasi-dutifully
quasi-dying
quasi-eager
quasi-eagerly
quasi-economic
quasi-economical
quasi-economically
quasi-educated
quasi-educational
quasi-educationally
quasi-effective
quasi-effectively
quasi-efficient
quasi-efficiently
quasi-elaborate
quasi-elaborately
quasi-elementary
quasi-eligible
quasi-eligibly
quasi-eloquent
quasi-eloquently
quasi- eminent
quasi-eminently
quasi-emotional
quasi-emotionally
quasi-empty
quasi-endless
quasi-endlessly
quasi-energetic
quasi-energetically
quasi-enforced
quasi-engaging
quasi-engagingly
quasi-entertaining
quasi-enthused
quasi-enthusiastic
quasi-enthusiastically
quasi-envious
quasi-enviously
quasi-episcopal
quasi-episcopally
quasi-equal
quasi-equally
quasi-equitable
quasi-equitably
quasi-equivalent
quasi-equivalently
quasi-erotic
quasi-erotically
quasi-essential
quasi-essentially
quasi-established
quasi-eternal
quasi-eternally
quasi-ethical
quasi-everlasting
quasi-everlastingly
quasi-evil
quasi-evilly
quasi-exact
quasi-exactly
quasi-exceptional
quasi-exceptionally
quasi-excessive
quasi-excessively
quasi-exempt
quasi-exiled
quasi-existent
quasi-expectant
quasi-expectantly
quasi-expedient
quasi-expeditently
quasi-expensive
quasi-expensively
quasi-experienced
quasi-experimental
quasi-experimentally
quasi-explicit
quasi-explicitly
quasi-exposed
quasi-expressed
quasi-external
quasi-externally
quasi-exterritorial
quasi-extraterritorial
quasi-extraterritorially
quasi-extreme
quasi-fabricated
quasi-fair
quasi-fairly
quasi-faithful
quasi-faithfully
quasi-false
quasi-falsely
quasi-familiar
quasi-familiarly
quasi-famous
quasi-famously
quasi-fascinated
quasi-fascinating
quasi-fascinatingly
quasi-fashionable
quasi-fashionably
quasi-fatal
quasi-fatalistic
quasi-fatalistically
quasi-fatally
quasi-favorable
quasi-favorably
quasi-favourable
quasi-favourably
quasi-federal
quasi-federally
quasi-feudal
quasi-feudally
quasi-fictitious
quasi-fictitiously
quasi-final
quasi-financial
quasi-financially
quasi-fireproof
quasi-fiscal
quasi-fiscally
quasi-fit
quasi-foolish
quasi-foolishly
quasi-forced
quasi-foreign
quasi-forgetful
quasi-forgetfully
quasi-forgotten
quasi-formal
quasi-formally
quasi-formidable
quasi-formidably
quasifortunate
quasi-fortunately
quasi-frank
quasi-frankly
quasi-fraternal
quasi-fraternally
quasi-free
quasi-freely
quasi-fulfilling
quasi-fully
quasi-gallant
quasi-gallantly
quasi-gaseous
quasi-gay
quasi-generous
quasi-generously
quasi-genteel
quasi-genteelly
quasi-gentlemanly
quasi-genuine
quasi-genuinely
quasi-glad
quasi-gladly
quasi-glorious
quasi-gloriously
quasi-good
quasi-gracious
quasi-graciously
quasi-grateful
quasi-gratefully
quasi-grave
quasi-gravely
quasi-great
quasi-greatly
quasi-guaranteed
quasi-guiltily
quasi-guilty
quasi-habitual
quasi-habitually
quasi-happy
quasi-harmful
quasi-harmfully
quasi-healthful
quasi-healthfully
quasi-heartily
quasi-hearty
quasi-helpful
quasi-helpfully
quasi-hereditary
quasi-heroic
quasi-heroically
quasi-historic
quasi-historical
quasi-historically
quasi-honest
quasi-honestly
quasi-honorable
quasi-honorably
quasi-human
quasi-humanistic
quasi-humanly
quasi-humble
quasi-humbly
quasi-humorous
quasi-humorously
quasi-ideal
quasi-idealistic
quasi-idealistically
quasi-ideally
quasi-identical
quasi-identically
quasi-ignorant
quasi-ignorantly
quasi-immediate
quasi-immediately
quasi-immortal
quasi-immortally
quasi-impartial
quasi-impartially
quasi-important
quasi-importantly
quasi-improved
quasi-inclined
quasi-inclusive
quasi-inclusively
quasi-increased
quasi-independent
quasi-independently
quasi-indifferent
quasi-indifferently
quasi-induced
quasi-indulged
quasi-industrial
quasi-industrially
quasi-inevitable
quasi-inevitably
quasi-inferior
quasi-inferred
quasi-infinite
quasi-infinately
quasi-influential
quasi-influentially
quasi-informal
quasi-informally
quasi-informed
quasi-inherited
quasi-initiated
quasi-jocundly
quasi-jointly
quasi-judicial
quasi-kind
quasi-kindly
quasi-knowledgeable
quasi-knowledgeably
quasi-laborious
quasi-laboriously
quasi-lamented
quasi-lawful
quasi-lawfully
quasi-legal
quasi-legally
quasi-legendary
quasi-legislated
quasi-legislative
quasi-legislatively
quasi-legitimate
quasi-legitimately
quasi-liberal
quasi-liberally
quasi-literary
quasi-living
quasi-logical
quasi-logically
quasi-loyal
quasi-loyally
quasi-luxurious
quasi-luxuriously
quasi-mad
quasi-madly
quasi-magic
quasi-magical
quasi-magically
quasi-malicious
quasi-maliciously
quasi-managed
quasi-managerial
quasi-managerially
quasi-marble
quasi-material
quasi-materially
quasi-maternal
quasi-maternally
quasi-mechanical
quasi-mechanically
quasi-medical
quasi-medically
quasi-medieval
quasi-mental
quasi-mentally
quasi-mercantile
quasi-metaphysical
quasi-metaphysically
quasi-methodical
quasi-methodically
quasi-mighty
quasi-militaristic
quasi-militaristically
quasi-military
quasi-ministerial
quasi-miraculous
quasi-miraculously
quasi-miserable
quasi-miserably
quasi-modern
quasi-modest
quasi-modestly
quasi-moral
quasi-moralistic
quasi-moralistically
quasi-morally
quasi-mourning
quasi-municipal
quasi-municipally
quasi-musical
quasi-musically
quasi-mutual
quasi-mutually
quasi-mysterious
quasi-mysteriously
quasi-mythical
quasi-mythically
quasi-nameless
quasi-national
quasi-nationalistic
quasi-nationally
quasi-native
quasi-natural
quasi-naturally
quasi-nebulous
quasi-nebulously
quasi-necessary
quasi-negative
quasi-negatively
quasi-neglected
quasi-negligent
quasi-negligible
quasi-negligibly
quasi-neutral
quasi-neutrally
quasi-new
quasi-newly
quasi-normal
quasi-normally
quasi-notarial
quasi-nuptial
quasi-obedient
quasi-obediently
quasi-objective
quasi-objectively
quasi-obligated
quasi-observed
quasi-offensive
quasi-offensively
quasi-official
quasi-officially
quasi-opposed
quasi-ordinary
quasi-organic
quasi-organically
quasi-oriental
quasi-orientally
quasi-original
quasi-originally
quasi-partisan
quasi-passive
quasi-passively
quasi-pathetic
quasi-pathetically
quasi-patient
quasi-patiently
quasi-patriarchal
quasi-patriotic
quasi-patriotically
quasi-patronizing
quasi-patronizingly
quasi-peaceful
quasi-peacefully
quasi-perfect
quasi-perfectly
quasi-periodic
quasi-periodically
quasi-permanent
quasi-permanently
quasi-perpetual
quasi-perpetually
quasi-personable
quasi-personably
quasi-personal
quasi-personally
quasi-perusable
quasi-philosophical
quasi-philosophically
quasi-physical
quasi-physically
quasi-pious
quasi-piously
quasi-plausible
quasi-pleasurable
quasi-pleasurably
quasi-pledge
quasi-pledged
quasi-pledging
quasi-plentiful
quasi-plentifully
quasi-poetic
quasi-poetical
quasi-poetically
quasi-politic
quasi-political
quasi-politically
quasi-poor
quasi-poorly
quasi-popular
quasi-popularly
quasi-positive
quasi-positively
quasi-powerful
quasi-powerfully
quasi-practical
quasi-practically
quasi-precedent
quasi-preferential
quasi-preferentially
quasi-prejudiced
quasi-prepositional
quasi-prepositionally
quasi-prevented
quasi-private
quasi-privately
quasi-privileged
quasi-probable
quasi-probably
quasi-problematic
quasi-productive
quasi-productively
quasi-progressive
quasi-progressively
quasi-promised
quasi-prompt
quasi-promptly
quasi-proof
quasi-prophetic
quasi-prophetical
quasi-prophetically
quasi-prosecuted
quasi-prosperous
quasi-prosperously
quasi-protected
quasi-proud
quasi-proudly
quasi-provincial
quasi-provincially
quasi-provocative
quasi-provocatively
quasi-public
quasi-publicly
quasi-punished
quasi-pupillary
quasi-purchased
quasi-qualified
quasi-radical
quasi-radically
quasi-rational
quasi-rationally
quasi-realistic
quasi-realistically
quasi-reasonable
quasi-reasonably
quasi-rebellious
quasi-rebelliously
quasi-recent
quasi-recently
quasi-recognized
quasi-reconciled
quasi-reduced
quasi-refined
quasi-reformed
quasi-sadly
quasi-safe
quasi-safely
quasi-sagacious
quasi-sagaciously
quasi-saintly
quasi-sanctioned
quasi-sanguine
quasi-sanguinely
quasi-sarcastic
quasi-sarcastically
quasi-satirical
quasi-satirically
quasi-satisfied
quasi-savage
quasi-savagely
quasi-scholarly
quasi-scholastic
quasi-scholastically
quasi-scientific
quasi-scientifically
quasi-secret
quasi-secretive
quasi-secretively
quasi-secretly
quasi-secure
quasi-securely
quasi-sentimental
quasi-sentimentally
quasi-serious
quasi-seriously
quasi-settled
quasi-similar
quasi-similarly
quasi-sincere
quasi-sincerely
quasi-single
quasi-singly
quasi-skillful
quasi-skillfully
quasi-slanderous
quasi-slanderously
quasi-sober
quasi-soberly
quasi-socialistic
quasi-socialistically
quasi-sovereign
quasi-spatial
quasi-spatially
quasi-spherical
quasi-spherically
quasi-spirited
quasi-spiritedly
quasi-spiritual
quasi-spiritually
quasi-standardized
quasi-stationary
quasi-stellar object
quasi-stellar radio source
quasi-strenuous
quasi-strenuously
quasi-studious
quasi-studiously
quasi-stylish
quasi-stylishly
quasi-subjective
quasi-subjectively
quasi-submissive
quasi-submissively
quasi-successful
quasi-successfully
quasi-sufficient
quasi-sufficiently
quasi-superficial
quasi-superficially
quasi-superior
quasi-supervised
quasi-supported
quasi-suppressed
quasi-sympathetic
quasi-sympathetically
quasi-systematic
quasi-systematically
quasi-systematized
quasi-tangent
quasi-tangible
quasi-tangibly
quasi-technical
quasi-technically
quasi-temporal
quasi-temporally
quasi-territorial
quasi-territorially
quasi-testamentary
quasi-theatrical
quasi-theatrically
quasi-wicked
quasi-wickedly
quasi-willing
quasi-willingly
quasi-wrong
quasi-young
quasi-zealous
quasi-zealously
quater-centenary
quaternary ammonium compound
quaternary ammonium salt
quaternian algebra
quaternion algebra
quaternion unit
quatre point
quatre premiers
quay punt
que sera sera
queen-cat
queen anne
queen anne's lace
queen bee
queen blue
queen bolt
queen butterfly
queen cactus
queen cage
queen cat
queen cattleya
queen cell
queen closer
queen conch
queen consort
queen dowager
queen excluder
queen fern
queen fritter
queen gold
queen mother
queen note
queen of heaven
queen of night
queen of puddings
queen of the meadow
queen of the prairie
queen olive
queen palm
queen post
quenching bath
quenouille training
quercitron lake
quercitron oak
querulous person
query mark
quest after
question at issue
question before the house
question in your mind
question mark
question master
question of fact
question of law
question stop
question time
question-and-answer session
question-begging
question-mark
quetzal bird
queue up
queuing theory
qui s'excuse s'accuse
qui tam
qui transtulit sustinet
qui vive
qui-hi
qui-hy
quia-quia
quick as a wink
quick as lightning
quick as thought
quick assets
quick bread
quick ear
quick exit
quick fire
quick freezing
quick grass
quick hunch
quick inspection
quick kick
quick look
quick march
quick on the draw
quick on the trigger
quick on the uptake
quick one
quick parts
quick pull
quick sight
quick sighted
quick step
quick stick
quick temper
quick thinking
quick time
quick to take offense
quick trick
quick water
quick wit
quick-acting
quick-break switch
quick-burning
quick-change
quick-change artist
quick-coming
quick-compounded
quick-conceiving
quick-decaying
quick-designing
quick-devouring
quick-drawn
quick-eared
quick-fading
quick-falling
quick-fire
quick-firer
quick-firing
quick-flowing
quick-freeze
quick-freezer
quick-freezing
quick-froze
quick-frozen
quick-glancing
quick-gone
quick-growing
quick-guiding
quick-gushing
quick-handed
quick-laboring
quick-lunch
quick-lunch counter
quick-minded
quick-moving
quick-nosed
quick-paced
quick-piercing
quick-questioning
quick-raised
quick-returning
quick-rolling
quick-running
quick-saver
quick-scented
quick-scenting
quick-selling
quick-setting
quick-shifting
quick-shutting
quick-sighted
quick-sightedness
quick-speaking
quick-spirited
quick-spouting
quick-stepping
quick-talking
quick-tempered
quick-thinking
quick-thoughted
quick-thriving
quick-voiced
quick-winged
quick-witted
quick-wittedly
quick-wittedness
quick-wrought
quicken tree
quicken your pace
quickening grass
quickie strike
quickness to take offense
quickset hedge
quicksilver weed
quickstep march
quicumque vult
quid pro quo
quid pro quos
quids pro quo
quiet as a mouse
quiet as a street at night
quiet day
quiet death
quiet down
quiet ecstasy
quiet end
quiet good manners
quiet hour
quiet life
quiet mind
quiet please
quiet pleasure
quiet spell
quiet taste
quiet-colored
quiet-dispositioned
quiet-eyed
quiet-going
quiet-living
quiet-looking
quiet-mannered
quiet-minded
quiet-moving
quiet-patterned
quiet-seeming
quiet-spoken
quiet-tempered
quietistic painting
quill bark
quill bit
quill drive
quill driver
quill driving
quill fern
quill fly
quill gear
quill nib
quill pen
quill pig
quill worts
quill-less
quill-like
quill-tailed
quillai bark
quillback carpsucker
quilting bee
quilting cotton
quin-
quince curculio
quince wine
quince yellow
quince-seed gum
quince-seed mucilage
quinhydrone electrode
quinic acid
quinine bush
quinine cherry
quinine flower
quinine herb
quinine plant
quinine tree
quinine water
quinat Salmon
quino-
quinoline dye
quinoline yellow
quinone diazide
quinone diimine
quinone oxime
quinova bitter
quinque-
quinque-angle
quinque-angled
quinque-angular
quinque-annulate
quinque-articulate
quinsy woodruff
quint major
quint minor
quint-
quinti-
quintuple counterpoint
quintuple point
quintuple time
quintuple-nerved
quintuple-ribbed
quip at
quips and cranks
quirk bead
quirk molding
quit cold
quit of
quit the field
quit this world
quit yourself
quit-rent
quitch grass
quitclaim deed
quite a
quite a few
quite a little
quite a thing
quite another thing
quite rather
quite so
quite some
quite the contrary
quite the lady
quitter bone
quiver along the spine
quiver leg
quiver like a rabbit
quiver of terror
quiver tree
quixotic ideal
quiz kid
quiz show
quizzing glass
quizzing-glass
quo warranto
quoad hoc
quobosque-weed
quod erat demonstrandum
quod erat faciendum
quod vide
quoddy boat
quoin post
quota immigrant
quota system
quotation board
quotation book
quotation mark
quotation marks
quotation noun
quote a price
quote chapter and verse
quote mark
quote out of context
quote yourself
quoted price
quotient group
quotient ring
quotient space
quotient verdict
r color
r-RNA
r-colour
r-less
rKET
rabbet draft
rabbet joint
rabbet plane
rabbet plank
rabbet-shaped
rabbet-shaped
rabbinic hebrew
rabbit bandicoot
rabbit berry
rabbit breeder
rabbit brush
rabbit cat
rabbit ears
rabbit fever
rabbit fish
rabbit flower
rabbit foot
rabbit louse
rabbit moth
rabbit punch
rabbit squirrel
rabbit stick
rabbit tick
rabbit tobacco
rabbit warren
rabbit's foot
rabbit's-foot
rabbit's-foot clover
rabbit-backed
rabbit-chasing
rabbit-ear
rabbit-ear faucet
rabbit-eared
rabbit-faced
rabbit-foot
rabbit-foot clover
rabbit-foot grass
rabbit-meat
rabbit-mouthed
rabbit-proof fence
rabbit-shouldered
rabbit-tail grass
rabbitskin glue
rabble rout
rabble-charming
rabble-chosen
rabble-courting
rabble-curbing
rabble-rouse
rabble-roused
rabble-rouser
rabble-rousing
raccoon dog
raccoon dog
raccoon fox
raccoon grape
raccoon oyster
raccoon perch
race against time
race board
race boat
race car
race card
race cloth
race cup
race extermination
race glass
race ground
race hatred
race horse
race horses
race knife
race meeting
race memory
race of man
race off
race plate
race prejudice
race problem
race psychology
race relations
race riot
race rotation
race runner
race snobbery
race stand
race suicide
race through the mind
race tool
race track
race week
race with
race with time
race your motor
rack the rents
rack up
rack up the rents
rack wheel
rack your brains
rack-and-pinion
rack-and-pinion railroad
rack-and-pinion railway
rack-rent
rack-renter
rack-stick
racket court
racket press
racket wheel
racket-tail
rackets, the
racomo-oxalic
radar antenna
radar application
radar astronomer
radar astronomy
radar beacon
radar beacon buoy
radar bombsight
radar controls
radar countermeasure
radar defenses
radar dome
radar engineer
radar fence
radar highway patrol
radar interference
radar marked beacon
radar nacelle
radar navigation
radar nose
radar operation
radar parts
radar picket plane
radar pulse
radar reflector
radar scanner
radar screen
radar signal
radar speed meter
radar station
radar technician
radar telescope
radar tracking station
radar trap
radar-telephone relay
radial engine
radial motion
radial saw
radial symmetry
radial tire
radial triangulation
radial tyre
radial velocity
radial-flow turbine
radial-ply
radiant efficiency
radiant emittance
radiant energy
radiant exitance
radiant flux
radiant heat
radiant heater
radiant heating
radiant intensity
radiant point
radiant splendor
radiant-heat brooder
radiate cheer
radiate heat
radiate-veined
radiation atom
radiation belt
radiation counter
radiation counters and chambers
radiation fog
radiation pattern
radiation physicist
radiation physics
radiation potential
radiation pressure
radiation pyrometer
radiation sickness
radiation therapy
radiato-
radiato-undulate
radiator cap
radiator casing
radiator compound
radiator core
radiator foot
radiator gauge
radiator grille
radiator maker
radiator making
radiator tank
radiator valve
radical axis
radical change
radical chic
radical empiricism
radical empiricist
radical expression
radical operation
radical reform
radical right
radical rightism
radical sign
radical therapy
radici-
radio aerial
radio altimeter
radio amateur
radio antenna
radio astronomer
radio astronomy
radio audience
radio beacon
radio beam
radio bearing
radio broadcast
radio broadcasting
radio car
radio channel
radio circuit
radio communication
radio compass
radio compass station
radio control
radio detection and ranging
radio direction finder
radio drama
radio electrician
radio electronics
radio engineer
radio engineering
radio fare
radio field intensity
radio frequency
radio horizon
radio interference
radio interferometer
radio knife
radio link
radio links
radio listener
radio marker
radio mast
radio mirror
radio navigation
radio observatory
radio operator
radio play
radio program
radio proximity fuze
radio range
radio range beacon
radio range station
radio receiver
radio reception
radio relay station
radio room
radio set
radio shack
radio show
radio signal
radio source
radio spectator
radio spectrum
radio star
radio station
radio technician
radio telescope
radio transmission
radio transmitter
radio tube
radio tubes
radio units
radio valve
radio wave
radio window
radio-
radio-active
radio-controlled lifeboat
radio-frequency
radio-frequency amplification
radio-frequency amplifier
radio-frequency circuit
radio-frequency echoes
radio-frequency heater
radio-frequency pulse
radio-frequency signal
radio-frequency stage
radio-frequency tube
radio-iodine
radio-navigational trainer
radio-phonograph
radio-phonograph combination
radio-record player
radio-ulna
radio-ulnar
radioactive decay
radioactive dust
radioactive element
radioactive elements
radioactive emanation
radioactive fallout
radioactive isotope
radioactive particle
radioactive radiation
radioactive series
radioactive substance
radioactive unit
radioactive units
radioactive waste
radiocarbon dating
radiological physics
radiosonde balloon
radiotelephone transmitter
radiotherapeutic substance
radiotherapeutic treatment
radish tree
radium B
radium bath
radium dial
radium emanation
radium lead
radium miner
radium paint
radium therapy
radium vermilion
radium-proof
radius bar
radius gauge
radius of action
radius of convergence
radius of curvature
radius of gyration
radius rod
radius trowel
radius vector
radius vectors
radix graminis
radix point
radon seed
raffia palm
raffle off
raffle wheel
raft body
raft dog
raft duck
raft ice
raft of money
raft port
rafted ice
rafter dam
rafter table
rag baby
rag bag
rag beater
rag bleacher
rag board
rag bolt
rag bush
rag carpet
rag chopper
rag dealer
rag doll
rag engine
rag fair
rag felt
rag gourd
rag lining
rag money
rag mop
rag offering
rag out
rag paper
rag peddler
rag pulp
rag rug
rag shop
rag stock
rag trade
rag tree
rag up
rag well
rag wheel
rag wool
rag work
rag-and-bone man
rag-and-chain pump
rag-bag
rag-bailing
rag-beating
rag-boiling
rag-bolt
rag-burn
rag-chew
rag-cutting
rag-fair
rag-made
rag-tag
rag-threshing
rag-time
rag-wheel
rage-crazed
rage-filled
rage-infuriate
rage-subduing
rage-swelling
rage-transported
ragged edge
ragged robin
ragged school
ragged staff
raggle block
raggle-taggle
raging fire
raging passion
raglan sleeve
ragman roll
ragman rolls
ragsorter's disease
ragtag and bobtail
ragtime band
ragtime music
ragweed family
rah-rah
raid the market
rail at
rail bead
rail car
rail chair
rail clip
rail dumper
rail ender
rail fence
rail filler
rail fork
rail guard
rail in
rail line
rail lock
rail maker
rail making
rail plate
rail setter
rail straightener
rail tongs
rail track
rail train
rail-bearing
rail-bending
rail-bonding
rail-borne
rail-cutting
rail-laying
rail-ocean
rail-ridden
rail-sawing
rail-splitter
rail-splitting
railroad center
railroad chair
railroad engineer
railroad engineering
railroad euchre
railroad flat
railroad furniture
railroad jack
railroad lantern
railroad line
railroad man
railroad pen
railroad radio
railroad scale
railroad sickness
railroad station
railroad telegraphy
railroad through
railroad train
railroad truck
railroad tunnel
railroad worm
railway car
railway express
railway guard
railway line
railway mail car
railway maker
railway making
railway man
railway spine
railway stitch
railway-borne
rain area
rain barrel
rain belt
rain bullfrogs
rain cats and dogs
rain chamber
rain check
rain cloud
rain course
rain dance
rain doctor
rain dogs and polecats
rain down
rain forest
rain gauge
rain glass
rain god
rain gods
rain insurance
rain leader
rain lily
rain maker
rain making
rain or shine
rain out
rain pie
rain pipe
rain pitchforks
rain print
rain rot
rain shadow
rain shower  
rain spot  
rain suit  
rain tadpoles  
rain tree  
rain water  
rain wind rose  
rain-awakened  
rain-bearing  
rain-beat  
rain-beaten  
rain-bird  
rain-bitten  
rain-bleared  
rain-blue  
rain-bright  
rain-damped  
rain-drenched  
rain-driven  
rain-dropping  
rain-fowl  
rain-fraught  
rain-god  
rain-gutted  
rain-scented  
rain-soaked  
rain-sodden  
rain-soft  
rain-streaked  
rain-swept  
rain-threatening  
rain-washed  
rain-water  
rain-water fish  
rainbow bird  
rainbow cactus  
rainbow chaser  
rainbow chasing  
rainbow cordial  
rainbow darter  
rainbow fish  
rainbow herring  
rainbow moss  
rainbow parrotfish  
rainbow perch  
rainbow runner  
rainbow seaperch  
rainbow snake
rainbow trout
rainbow-arched
rainbow-clad
rainbow-colored
rainbow-edged
rainbow-girded
rainbow-hued
rainbow-large
rainbow-painted
rainbow-sided
rainbow-skirted
rainbow-tinted
rainbow-winged
rainette green
rainwater pipe
rainy day
rainy season
rainy weather
raise Cain
raise Ned
raise a clamor
raise a cry
raise a din
raise a hand against
raise a howl
raise a hue and cry
raise a hue and cry against
raise a hullabaloo
raise a laugh
raise a question
raise a ruckus
raise a rumpus
raise a siege
raise a smile
raise a storm
raise aloft
raise an alarm
raise animals
raise apprehensions
raise expectation
raise expectations
raise from the dead
raise ghosts
raise hell
raise hob
raise hob with
raise hope
raise merry hell
raise money
raise objections
raise sand
raise the curtain
raise the deuce
raise the devil
raise the dickens
raise the drawbridge
raise the elbow
raise the hue and cry
raise the hunt
raise the roof
raise the spirits
raise the temperature
raise to a fever heat
raise to a fever pitch
raise to more than one
raise up
raise up the voice
raise your choler
raise your dander
raise your eyebrows
raise your gorge
raise your hackles
raise your hand against
raise your hopes
raise your pay
raise your voice
raise your voice against
raised beach
raised doughnut
raised girt
raised in a barn
raised quarter-deck
raisin black
raisin bread
raisin grape
raisin purple
raisin tree
raisin wine
raisin-colored
raising bee
raising hammer
raising of temperature
raising plate
raising-piece
raison d'etat
raison d'etre
raison d'être
raj-kumari
rake in
rake out
rake over the coals
rake up
rake up the past
rake vein
rake-hell
rake-off
rake-teeth
raked bow
raker tooth
raking bond
raking cornice
raking course
raking fire
raking over the coals
raking shore
raking-down
raking-over
ralli-car
rally around
rally round
rallying cry
rallying device
rallying point
rallying theme
ram bow
ram cat
ram down
ram down your throat
ram effect
ram in
ram leather
ram pressure
ram rocket
ram schooner
ram's horn
ram's-head lady's-slipper
ram's-horn
ram-air turbine
ram-cat
ram-headed
ram-jam
ram-jet engine
ram-jet propulsion
ram-line
ram-rod
ramage hawk
ramble on
ramble-scramble
ramjet engine
rammed earth
ramp along
ramp valley
rampant arch
rampant will
ramper eel
ramrod-stiff
ran-tan
ranch company
ranch country
ranch economics
ranch hand
ranch house
ranch life
ranch owner
ranch rider
ranch wagon
rand machine
randall grass
random access
random access memory
random bond
random data
random line
random motion
random point
random sample
random sampling
random shot
random-jointed
range angle
range finder
range finding
range grass
range horse
range itself
range light
range line
range mark
range marker
range masonry
range of accommodation
range of meaning
range of view
range of vision
range out
range over
range paralysis
range pole
range rake
range rider
range stove
range table
range the coast
range the world
range through
range with
range wool
range yourself on the side of
range yourself with
range-bred
range-marker generator
range-sweep amplifier
range-sweep generator
ranging pole
rank and file
rank beneath
rank first
rank high
rank low
rank out
rank under
rank-and-filer
rank-brained
rank-feeding
rank-growing
rank-grown
rank-minded
rank-out
rank-scented
rank-scenting
rank-smelling
rank-springing
rank-swelling
rank-tasting
rank-winged
ranking bar
ranking jumper
rankle in the breast
ransack your brains
ransom bill
ransom bond
rant and rave
rantum-scantum
ranz-des-vaches
rap full
rap on the knuckles
rap out an oath
rap session
rap sheet
rap shot
rap-full
rape butterfly
rape oil
rape wine
rapeseed oil
rapid eye movement
rapid fire
rapid glance
rapid recurrence
rapid slope
rapid succession
rapid transit
rapid-changing
rapid-fire
rapid-fire mount
rapid-firer
rapid-firing
rapid-flowing
rapid-flying
rapid-footed
rapid-mannered
rapid-passing
rapid-running
rapid-speaking
rapid-transit
rapier-like
rapier-proof
rapper-dandies
rapt attention
rapt away
rapt full
rapt in wonder
rapture-bound
rapture-breathing
rapture-bursting
rapture-giving
rapture-moving
rapture-ravished
rat-killing
rat-lin
rat-ridden
rat-riddled
rat-skin
rat-stripper
rat-tail
rat-tail cactus
rat-tail file
rat-tail spoon
rat-tailed
rat-tailed maggot
rat-tat
rat-tat-tat
rat-tattle
rat-tight
rat-trap
ratable value
ratafia biscuit
ratatat-tat
ratbite disease
ratbite fever
ratchet brace
ratchet chain
ratchet clock
ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
rate action
rate base
rate cap
rate determination
rate highly
rate low
rate maker
rate making
rate of exchange
rate of interest
rate-aided
rate-cutting
rate-fixing
rate-of-climb indicator
rattlesnake plantain
rattlesnake root
rattlesnake weed
rattlesnake-bite
tattlety-bang
rattling pace
rattrap pedal
raucous happiness
raus mit dir
ravage with fire and sword
ravaged with age
ravages of time
rave about
rave against
rave hook
rave-up
ravel bread
ravel out
raven black
raven cockatoo
raven gray
raven standard
raven-black
raven-colored
raven-feathered
raven-haired
raven-plumed
raven-toned
raven-torn
raven-tressed
ravigote sauce
ravine deer
raving beauty
raving lunatic
raving mad
ravished away
ravison oil
raw comedy
raw data
raw deal
raw fibers
raw glaze
raw material
raw milk
raw nerve
raw nerves
raw recruit
raw score
raw sienna
raw silk
raw umber
raw vegetables
raw weather
raw wind
raw, the
raw-bone
raw-boned
raw-colored
raw-devouring
raw-edged
raw-faced
raw-handed
raw-head
raw-headed
raw-looking
raw-mouthed
raw-nosed
raw-pack method
raw-ribbed
raw-striped
raw-wool
ray filter
ray floret
ray flower
ray fungus
ray grass
ray gun
ray of hope
ray of light
ray of sunshine
ray pod
ray therapy
ray-fringed
ray-gilt
ray-girt
ray-grass
ray-illumined
ray-lit
ray-strewn
rayless goldenrod
rayon casheen
rayon stockings
raze to the dust
raze to the ground
razee plane
razon bomb
razor blade
razor clam
razor fish
razor grass
razor saw
razor shell
razor stone
razor strap
razor temper
razor-back
razor-backed
razor-bill
razor-billed
razor-billed auk
razor-bladed
razor-bowed
razor-cut
razor-edge
razor-edged
razor-fish
razor-grinder
razor-keen
razor-leaved
razor-shaped
razor-sharp
razor-sharpening
razor-shell
razor-tongued
razor-weaponed
razor-witted
razzle-dazzle
re-
re-act
re-ally
re-book
re-buff
re-cede
re-claim
re-co-operate
re-co-operation
re-cognition
re-cognitional
re-coil
re-coilre-collect
re-collect
re-collection
re-commend
re-cord
re-count
re-cover
re-create
re-created
re-creating
re-creation
re-creative
re-creator
re-derive
re-desert
re-do
re-dress
re-earn
re-ebullient
re-echo
re-edificate
re-edification
re-edifier
re-edify
re-edit
re-educate
re-education
re-educative
re-effeminate
re-egg
re-ejaculate
re-eject
re-ejection
re-ejectment
re-elaborate
re-elaboration
re-elect
re-election
re-elevate
re-elevation
re-eligibility
re-eligible
re-eliminate
re-elimination
re-emanate
re-embark
re-embarkation
re-embarrass
re-embarrassment
re-emblale
re-embed
re-embellish
re-embodiment
re-embody
re-embosom
re-embrace
re-embracement
re-embroil
re-emerge
re-emergence
re-emergent
re-emersion
re-emigrant
re-emigrate
re-emigration
re-emission
re-emit
re-emphasis
re-emphasize
re-employ
re-employment
re-empower
re-empty
re-emulsify
re-enable
re-enact
re-enaction
re-enactment
re-enamel
re-enamor
re-enamour
re-enchain
re-enclose
re-enclosure
re-encounter
re-encourage
re-encouragement
re-ender
re-endear
re-endearment
re-endorse
re-endorsement
re-endow
re-endowment
re-energize
re-enfeoff
re-enfeoffment
re-enforce
re-enforcement
re-enforcer
re-enfranchise
re-exclude
re-exclusion
re-execute
re-execution
re-exempt
re-exemption
re-exercise
re-exert
re-exertion
re-exhale
re-exhaust
re-exhibit
re-exhibition
re-exhilarate
re-exhilaration
re-exist
re-existence
re-existent
re-expand
re-expansion
re-expect
re-expectation
re-expedite
re-expedition
re-expel
re-experience
re-experiment
re-explain
re-explanation
re-export
re-exportation
re-exporter
re-expose
re-exposure
re-expound
re-express
re-expression
re-expulsion
re-extend
re-extension
re-extent
re-extract
re-extraction
re-form
re-formation
re-formative
re-former
re-fund
re-genesis
re-ice
re-ink
re-laid
re-lay
re-laying
re-lease
re-leased
re-leasing
re-mark
re-pose
re-posed
re-posing
re-present
re-presentation
re-presentment
re-press
re-proof
re-prove
re-proved
re-proven
re-proving
re-reaction
re-rebel
re-receive
re-reception
re-recital
re-recite
re-reckon
re-recognition
re-recognize
re-recollect
re-recollection
re-recommend
re-recommendation
re-reconcile
re-reconciliation
re-record
re-recover
re-rectification
re-rectify
re-reduce
re-reduction
re-refer
re-refine
re-reflect
re-reflection
re-reform
re-restitution
re-restoration
re-restore
re-restrain
re-restraint
rerestrict
re-restriction
re-retire
re-retirement
re-return
re-reveal
re-revelation
re-revenge
re-reversal
re-reverse
re-.revise
re-revision
re-search
re-serve
re-sign
re-soluble
re-solution
re-sort
re-sorter
re-sound
re-store
re-strain
re-trace
re-traced
re-tracing
re-tread
re-treader
re-treat
re-treatment
re-trench
re-try
re-turn
re-up
re-use
reach a better land
reach a better life
reach a better place
reach a better world
reach a compromise
reach a new low
reach a parting of the ways
reach boat
reach boiling point
reach its season
reach land
reach manhood
reach maturity
reach of mind
reach orgasm
reach out
reach perfection
reach rod
reach safety
reach the age of consent
reach the breaking point
reach the depths
reach the ear
reach the ear of
reach the snapping point
reach to
reach twenty-one
reach voting age
reach womanhood
reach your destination
reach your ears
reach your goal
reach your majority
reach your nostrils
reach-me-down
reach-me-downs
reacher-in
reaching foresail
reaching high
reaching jib
reaching post
react chemically
reactance coil
reactance drop
reaction border
reaction engine
reaction formation
reaction locus
reaction machine
reaction motor
reaction propulsion
reaction rim
reaction ring
reaction time
reaction turbine
reaction wheel
reaction-proof
reactive current
reactive inflammation
reactive neurosis
reactive psychosis
reactor engine
reactor pile
read a lecture
read a lecture to
read a lesson
read a lesson to
read a sermon
read between the lines
read copy
read easily
read for
read in
read in view of
read into
read law
read out
read out of
read palms
read tea leaves
read the future
read the meter
read the riot act
read up
read up on
read with
read your hand
read your lines
read yourself in
read-write head
reader-off
readiness of feeling
readiness of speech
reading book
reading chair
reading desk
reading distance
reading glass
reading glasses
reading hook
reading in
reading lamp
reading man
reading matter
reading notice
reading pew
reading room
reading, writing, and arithmetic
reading-in machine
ready about
ready and willing
ready at hand
ready box
ready for
ready for anything
ready for bed
ready money
ready pen
ready reckoner
ready reply
ready retort
ready roofing
ready room
ready to
ready to believe
ready to burst
ready to burst forth
ready to cry
ready to drop
ready up
ready wit
ready yourself
ready yourself to
ready-armed
ready-beaten
ready-bent
ready-braced
ready-built
ready-coined
ready-cooked
ready-cut
ready-dressed
ready-for-wear
ready-formed
ready-furnished
ready-grown
ready-handed
ready-made
ready-mades
ready-mix
ready-mixed
ready-mounted
ready-penned
realize on
realize profit
really into
really something
really-truly
realm of light
realm-bounding
realm-conquering
realm-destroying
realm-governing
realm-peopling
realm-subduing
realm-sucking
realm-unpeopling
ream ass
ream out
reaming-out
reap and carry
reap gapeseed
reap profit
reap the benefit of
reap the fruits of
reap the whirlwind
reap where you have sown
reaper binder
reaper binder Obsolete
reaper file
reaper thresher
reaping hook
reaping machine
rear admiral
rear aloft
rear arch
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-
rear-admiral
rear-arch
rear-cut
rear-directed
rear-driven
rear-driving
rear-end
rear-guard
rear-horse
rear-steering
rear-vassal
rear-vault
rear-view mirror
rear-vision mirror
rearguard action
rearing bit
rearview mirror
reason about
reason behind
reason for
reason for being
reason ill
reason in a circle
reason out
reason speciously
reason that
reason the point
reason to believe
reason why
reason with
reasonable charge
reasonable ground
reasonable hope
reasonable presumption
reasonable price
reasoning faculty
reasoning power
rebate plane
rebel clover
rebel yell
rebound clip
rebound leaf
rebus sic stantibus
rec room
recalessence point
recall dose
recall knowledge of
recall of ambassadors
recall to life
recall to mind
recapitulation theory
recapture clause
receipt book
receipt in full
receipt in full of all demands
receive Christ
receive a false impression
receive absolution
receive an impression
receive credit
receive instruction
receive pleasure from
receive the Sacrament
receive with open arms
received meaning
receiver of stolen goods
receiver part
receiver parts
receiver-general
receiving antenna
receiving blanket
receiving line
receiving note
receiving order
receiving pallet
receiving set
receiving ship
receiving station
receiving tube
recent past
receptaculum seminis
reception hall
reception room
receptive mood
recess appointment
recess bed
recess committee
recess of the memory
recesses of the heart
recession from one another
recessional hymn
recessional march
recessive character
recharge your batteries
rechargeable-battery radio
reciprocal exchange
reciprocal insurance
reciprocal leveling
reciprocal ohm
reciprocal or mutual relation
record book
record changer
record clerk
record holder
record hop
record keeping
record player
record ribbon
record time
record vote
record-bearing
record-beating
record-breaking
record-changer
record-making
record-player
record-seeking
record-setting
recorded delivery
recording altimeter
recording analyzer
recording anemometer
recording angel
recording barometer
recording hygrometer
recording instrument
recording instruments
recording meter
recording potentiometer
recording pyrometer
recording secretary
records-pulse generator
recover health
recover knowledge of
recover one's equilibrium
recover your balance
recover your equilibrium
recover your sanity
recovery coke
recovery oven
recovery peg
recovery room
recreation ground
recreation room
recreational therapy
recruit your strength
recruiting ground
rect-
rectangular coordinate
rectangular coordinates
rectangular data
rectangular hyperbola
rectangular number
recti-
rectifier circuit
rectifier instrument
rectifier tube
rectilinear number
recto-
recto-urethral
recto-uterine
rectovesical fascia
rectus abdominus
rectus femoris
recumbent anticline
recuperative furnace
recur to
recur to the mind
recurrence formula
recurrent fever
recurring action
recurring decimal
recursion formula
recurvo-
red admiral
red alder
red alert
red alga
red algae
red ant
red as a beet
red as a hot coal
red as a live coal
red as a lobster
red as a turkey-cock
red as blood
red as fire
red bag
red bark
red bay
red biddy
red birch
red blindness
red blood
red blood cell
red blood corpuscle
red hand
red hands
red hat
red heat
red herring
red hind
red horse
red horse chestnut
red in the face
red indian
red jasmine
red jungle fowl
red kauri
red kowhai
red label
red larkspur
red lattice
red lead
red leaf
red letter
red light
red line
red liquor
red maids
red man
red maple
red mass
red meat
red mercuric oxide
red mercuric sulfide
red mombin
red mulberry
red mullet
red oak
red ocher
red ochre
red orpiment
red osier
red packet
red pepper
red periwinkle
red pine
red pink
red poll
red prussiate of potash
red puccoon
red race
red rag
red rag to a bull
red rat snake
red ribbon
red robin
red roncador
red rose
red rot
red rover
red rust
red sable
red sage
red salmon
red sand
red setter
red shank
red shanks
red shift
red sindhi
red siskin
red snapper
red snow
red spider
red squill
red squirrel
red stuff
red tai
red tape
red tide
red tipped moss
red trillium
red turtlehead
red valerian
red water
red whortleberry
red wine
red worm
red zinc ore
red, white, and blue
red-alder
red-armed
red-backed
red-backed sandpiper
red-backed shrike
red-bait
red-baiting
red-banded
red-bar
red-barked
red-beaded
red-beaked
red-beamed
red-bearded
red-bellied
red-bellied turtle
red-belted
red-berried
red-billed
red-black
red-blind
red-blooded
red-bloodedness
red-bodied
red-boled
red-bonnet
red-bound
red-branched
red-branching
red-breasted
red-brick
red-brick university
red-brown
red-burning
red-buttoned
red-carpet
red-cheeked
red-chested
red-ciled
red-ciling
red-cilled
red-cilling
red-clad
red-clay
red-cloaked
red-clocked
red-coat
red-coated
red-cockaded
red-collared
red-colored
red-combed
red-complexioned
red-crested
red-crowned
red-curtained
red-dabbled
red-dog
red-tempered
red-thighed
red-throat
red-throated
red-tiled
red-tinted
red-tipped
red-tongued
red-top
red-topped
red-topped buffalo grass
red-trousered
red-tufted
red-twigged
red-up
red-upholstered
red-veined
red-vented
red-vested
red-violet
red-walled
red-wat
red-water
red-wattled
red-waved
red-white
red-winged
red-winged blackbird
red-wooded
red-written
red-yellow
redback spider
redbelly dace
redbrick university
redd-up
reddish brown
reddish brown colors
reddish-amber
reddish-bay
reddish-bellied
reddish-black
reddish-blue
reddish-brown
reddish-colored
reddish-gray
reddish-green
reddish-haired
reddish-headed
reddish-looking
reddish-orange
reddish-purple
reddish-white
reddish-yellow
redear sunfish
redeem your pledge
redeem your pledges
redeemable bond
redeemed soul
redemption center
redemption fund
redevelopment area
redevelopment company
redhead-grass
redheart hickory
redhorse sucker
redirect examination
rediscountrate
redmouth buffalo fish
redouble your efforts
redound to
redound to the honor of
redound to your honor
redox potential
redpoll linnet
redpoll warbler
redrawing press
redrawing punch
redress a wrong
redress an injustice
reduce sail
reduce the temperature
reduce to
reduce to ashes
reduce to dust
reduce to elements
reduce to essentials
reduce to order
reduce to powder
reduce to rubble
reduce to silence
reduce to unity
reduce to writing
reduce weight
reduced circumstances
reduced hemoglobin
reduced in health
reduced level
reduced mass
reduced paid-up insurance
reduced price
reduced rates
reduced sail
reduced sight
reduced to a skeleton
reduced to dire straits
reduced to jelly
reduced to powder
reduced vowel
reducer sleeve
reducible algebra
reducing agent
reducing diet
reducing furnace
reducing glass
reducing press
reducing valve
reducing wheels
reductase test
reductio ad absurdum
reduction division
reduction formula
reduction of armaments
reduction of expenses
reduction of government spending
reduction of spending
reduction of temperature
reduction potential
reduction to ashes
reduction to dust
reduction to elements
reduction to parts
reduction to powder
reduction works
reduction-improbation
redundant check
redundant verb
redwing blackbird
reed basket
reed bent
reed bunting
reed canary grass
reed fescue
reed grass
reed green
reed instrument
reed mace
reed mark
reed meadow grass
reed organ
reed pipe
reed plane
reed stop
reed thrush
reed warbler
reed wren
reed yellow
reed-back
reed-blade
reed-bordered
reed-clad
reed-compact
reed-crowned
reed-grown
reed-mace
reed-rond
reed-roofed
reed-rustling
reed-shaped
reed-thatched
reed-warbler
reef band
reef cringle
reef down
reef earing
reef goose
reef hook
reef jig
reef jigger
reef knot
reef pendant
reef point
reef tackle
reef your sails
reef-knoll
reef-knot
reefed sail
reefing bowsprit
reefing jacket
reek of piety
reel and bead
reel back
reel borer
reel foot
reel in
reel man
reel off
reel oven
reel-fed
reel-fitted
reel-footed
reel-to-reel
reeled silk
reeling hammer
reeming beetle
reeming iron
reentering angle
reentering polygon
reeving-line bend
refectory table
refer to
reference book
reference editor
reference electrode
reference frame
reference gauge
reference group
reference librarian
reference library
reference mark
reference marks
reference peg
reference quantity
reference system
reference to
reference-voltage generator
referendum dollar
referred pain
referred to
referring to
refine a distinction
refine upon
refined discrimination
refined palate
refined sense of hearing
refined taste
refining engine
refining equipment
refining heat
refining place
reflect discredit upon
refrigeration ship
refrigerator car
refrigerator truck
refund annuity
refunding bond
refusal to be amazed
refusal to be awed
refusal to be impressed
refusal to believe
refund comment
refuse consent
refuse credence to
refuse credit to
refuse destructor
refuse heap
refuse lac
refuse point-blank
refuse stays
refuse summarily
refuse to accept
refuse to acknowledge
refuse to admit
refuse to associate with
refuse to be impressed
refuse to believe
refuse to consider
refuse to cooperate
refuse to credit
refuse to pay
refuse to receive
refuse to recognize
refuse to shed blood
refuse work
refusing work
regal purple
regard before
regard studiously
regard with indulgence
regardless of
regardless of consequences
regardless of cost
renewed cellulose
regenerative cooling
regenerative furnace
regenerative receiver
regenerative wave-meter
regent bird
regent house
reindeer pest
reinforced bow
reinforced concrete
reins of government
reinsurance fund
reisner work
reject authority
reject back
rejection slip
rejoice in
rejoice in a seller's market
rejoice in the name of
rejoice the heart
rejoice with
relapsing fever
relate at large
relate in extenso
relate to
relate to emotionally
related by blood
related word
relating to
relation word
relative aperture
relative atomic mass
relative bearing
relative by marriage
relative clause
relative complement
relative density
relative dispersion
relative electron affinity
relative frequency
relative heading
relative humidit
relative humidity
relative incidence
relative magnitude
relative major
relative majority
relative maximum
relative minimum
relative minor
relative molecular mass
relative permeability
relative permittivity
relative pitch
relative pronoun
remain at peace
remain firm
remain in the shade
remain in your memory
remain incommunicado
remain motionless
remain neutral
remain on your hands
remain seated
remain stable
remain unmoved
remain valid
remainder theorem
remand home
remand school
remanent magnetism
remark upon
remarkably like
remarque proof
remedial measure
remedial of
remedy an injustice
remedy-proof
remembrance day
remind one of
remind you of
remission of sin
remit the penalty of
remittance man
remittent fever
remontoir escapement
remorse of conscience
remote age
remote cause
remote control
remote distance
remote future
remote handling
remote past
remote pickup
remote possibility
remote region
remote resemblance
remote time
remote-control
remote-controlled
remote-pickup unit
remotely like
remotely related
remotest corner of the world
remoulade sauce
remount cavalry
removal cutting
removal to Abraham's bosom
removal to heaven
remove all doubt
remove all restrictions
remove friction
remove from life
remove from office
removed from the record
removing the veil
remuneratory sanction
renal calculus
renal hematuria
renal pelvis
renal splanchnic nerve
rend asunder
rend from
rend the air
rend the eardrums
rend the ears
rend the firmament
rend the heart
rend the skies
render a service
render assistance
render blind
render credit
render honor to
render insensible
render lip service
render powerless
render recognition
render service to
render thanks
render up
rendering coat
rendering works
renew your strength
rei-
rennet bag
rennet casein
rennet ferment
renounce the throne
rent charge
repent in sackcloth and ashes
repertory company
repertory drama
repertory show
repertory theater
repetition for effect
repetition for emphasis
replacement cost
replacement therapy
replacement transfusion
replacement vein
replica grating
reply by return mail
reply card
reply coupon
reply to
report card
report for duty
report out
report stage
reported speech
reporting pay
repose confidence in
repose in
repose on
repose on your laurels
repose upon
represent yourself to be
representative art
representative democracy
representative fraction
representative government
representative of the press
representative realism
representative town meeting
representative-elect
representing in the mind
repress a smile
repress your desires
repro proof
reproach yourself
reproduce after your kind
reproduce in kind
reproducing element
reproduction cost
reproduction proof
reproductive cell
reproductive imagination
reproductive organs
reproving look
reptilian age
republic of letters
request note
request stop
request the presence of
requiem mass
requiem shark
requiescent in pace
requiescat in pace
require an answer
required visit
requisition form
rere-
rere-brace
rere-dorter
rere-supper
res adjudicata
res gestae
res ipsa loquitur
res judicata
res publica
resale price maintenance
rescue device
rescue grass
rescue helicopter
rescue mission
rescue plane
research and development
research center
research engineer
research engineering
research establishment
research facility
research installation
research laboratory
research library
research material
research monograph
research paper
research plane
research professor
research rocket
research satellite
research station
research study
research worker
reserve account
reserve bank
reserve buoyancy
reserve city
reserve currency
reserve forces
reserve fund
reserve militia
reserve officer
reserve price
reserve ratio
reserve ration
reserve supply
reserve yourself
reserved list
reserved occupation
reserved power
reset action
reside in
resident commissioner
resident maid
resident physician
residential district
residual clay
residual magnetism
residual power
residual stress
residuary devisee
residuary legatee
resign from
resign your being
resign your life
resign yourself
resign yourself to
resignation bond
resigned-looking
resin alcohol
resin bee
resin canal
resin cerate
resin distiller
resin gnat
resin jack
resin oil
resin opal
resin plant
resin plastic
resin soap
resin spirit
resino-
resist believing
resist entreaty
resist persuasion
resist printing
resistance box
resistance butt welding
resistance capacitance
resistance coil
resistance coupling
resistance derivative
resistance drop
resistance fighter
resistance fighting
resistance frame
resistance furnace
resistance pyrometer
resistance thermometer
resistance to belief
resistance to change
resistance welding
resisting medium
resisting moment
resistive conductor
resistive coupling
resistiveness to belief
resojet engine
resojet propulsion
resolutory condition
resolve into
resolve itself into
resolve to
resolved upon
resolving power
resonace box
resonace potential
resonance cavity
resonance curve
resonance duct jet engine
resonance energy
resonance form
resonance frequency
resonance frequency control
resonance hybrid
resonance indicator
resonance jet engine
resonance neutron
resonance pipe
resonance radiation
resonance spectrum
resonance wave coil
resonance-coil antenna
resonant cavity
resonant chamber
resonant frequency
resonant-jet engine
resorcin acetate
resorcin brown
resorcin dark brown
resorcinol monoacetate
resorption border
resort to
resort to arms
resound in the ears
resound the praises of
resounding triumph
respect your duty
respectable citizen
respeian composer
respiration calorimeter
respirato-
respiratory center
respiratory disease
respiratory leaf
respiratory nerve
respiratory pigment
respiratory plate
respiratory quotient
respiratory system
respiratory tree
respiratory trumpet
resplendent trogon
resplendently beautiful
respond to
respond to stimuli
responding note
responsary report
response generalization
response time
response to stimuli
responsible for
responsible person
responsory report
rest and be thankful
rest assured
rest cure
rest day
rest easy
rest energy
rest from your labors
rest hard upon
rest home
rest house
rest in
rest in confidence
rest in peace
rest in the arms of Morpheus
rest mass
rest on
rest on the shoulders of
rest on your laurels
rest on your oars
rest room
rest satisfied
rest stop
rest treatment
rest up
rest upon
rest upon your oars
rest with
rest your case
rest-balk
rest-cure
rest-cured
rest-giving
rest-harrow
rest-home
rest-ordained
rest-refreshed
rest-seeking
rest-taking
restaurant car
restful sleep
resting easy
resting in peace
resting of the case
resting place
resting point
restless cavy
restore harmony
restore self-respect
restore to health
restoring spring
restrain yourself
restraining hand
restraining order
restraint of trade
restrict to
restrict yourself
restricted class
restricted information
restricted practice
restricted propellant
restricted theory of relativity
restriction of intake
restrictive clause
restrictive covenants
restrictive practice
result clause
result from
result on
resultant force
resultant tone
resulting from
resurrecet-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
retail seller
retail store
retain in the thoughts
retain the memory of
retained earnings
retained income
retained object
retained objective complement
retaining fee
retaining wall
retardation method
retentive memory
retentive mind
retia mirabilia
reticular system
reticulate python
reticulated tracery
reticulated vessel
reticulato-
reticulo-
reticuloendothelial system
reticulum cell
reticulum cell sarcoma
retin-
retinal rod
retinitis pigmentosa
retino-
retire from office
retire from sight
retire from the world
retire into the shade
retire into your shell
retired list
retired professor
retirement benefits
retirement from office
retirement income insurance
retiring disposition
retold story
retonation wave
retort an accusation
retort drawer
retort stand
retrace your steps
retractable landing gear
retreaded tire
retreat into your mind
retreat into your shell
retreat into your thoughts
retreat to immaturity
retreating market
retributive justice
retro rocket
retro-
retro-float light
retro-ocular
retro-omental
retro-operative
retro-oral
retro-rocket
retro-umbilical
retro-uterine
retroactive inhibition
retroanterograde amnesia
retrograde amnesia
rets currach
return a true bill
return a verdict
return a verdict of not guilty
return address
return answer
return ball
return bead
return beam
return bend
return blow for blow
return card
return crease
return day
return evil for evil
return for answer
return game
return like for like
return match
return of evil for evil
return piece
return receipt
return shock
return signal
return thanks
return the compliment
return the like
return ticket
return to
return to dust
return to life
return to mind
return to reality
return to the earth
return to the fold
return to the soil
return to the starting point
return trap
return wall
return-cocked
return-day
return-flue boiler
return-tubular boiler
returning board
returning officer
rev counter
reveal a secret
reveal yourself
revealed religion
revealed truth
revel in
revel master
revel-rout
revenge in kind
revenge tragedy
revenue account
revenue bond
revenue cutter
revenue expenditure
revenue stamp
revenue tariff
reverberatory furnace
reverberation chamber
reverberation time
reverberatory furnace
reverberatory kiln
reverend sir
reverential regard
reversal film
reversal plate
reversal process
reverse bar
reverse bevel
reverse bid
reverse discard
reverse discrimination
reverse of fortune
reverse plate
reverse shot
reverse split
reverse transcriptase
reverse transfer resistance
reverse turn
reverse your field
reverse yourself
reverse-angle shot
reverse-charge
reverse-phase relay
reversed collar
reverses feedback
reversible reaction
reversible-disk plow
reversing light
reversing prism
rheims version
rhein-berry
rheo-
rhesus baby
rhesus factor
rhesus monkey
rhetorical accent
rhetorical question
rhetorical stress
rheumatic disease
rheumatic fever
rheumatic heart disease
rheumatism of the heart
rheumatism root
rheumatism weed
rheumatism-root
rheumato-
rheumatoid arthritis
rhin-
rhine wine
rhino-
rhinoceros auklet
rhinoceros beetle
rhinoceros bird
rhinoceros bush
rhinoceros hide
rhinoceros hornbill
rhinoceros viper
rhinoceros-shaped
rhinolalia aperta
rhinolalia clausa
rhiz-
rhizo-
rhizoctonia disease
rhizosphere effect
rho particle
rhod-
rhode island bent
rhode island red
rhode island white
rhodes grass
rhodes scholar
rhodesian man
rhodium oil
rhodium wood
rhodo-
rhodonite pink
rhomb spar
rhomb-
rhomb-leaved
rhombic aerial
rhombic antenna
rhombo-
rhomboid-ovate
rhubarb wine
rhumb line
rhumbline sailing
rhus dermatitis
rhus glabra
rhyme or reason
rhyme royal
rhyme scheme
rhyme word
rhyme-beginning
rhyme-composing
rhyme-fettered
rhyme-forming
rhyme-free
rhyme-inspiring
rhyme-tagged
rhyming dictionary
rhyming slang
ryolite-porphyry
rhythm band
rhythm method
rhythm section
rhythm stick
rhythm-and-blues
rhythmic pattern
rhythmic phrase
rhythmic play
rhythmical accent
rhythmical accentuation
rhythmical stress
rib cage
rib cut
rib grass
rib lath
rib meristem
rib rifling
rib roast
rib steak
rib stitch
rib tickler
rib-bearing
rib-breaking
rice-cleaning
rice-clipping
rice-eating
rice-field eel
rice-grading
rice-grain decoration
rice-grinding
rice-growing
rice-hulling
rice-paper
rice-paper tree
rice-planting
rice-polishing
rice-pounding
rice-root grass
rice-seed body
rice-water
rich as Croesus
rich harvest
rich hat
rich imagination
rich lode
rich man
rich man's panic
rich ore
rich rhyme
rich soil
rich source
rich uncle
rich vein
rich, the
rich-appareled
rich-attired
rich-bedight
rich-bound
rich-built
rich-burning
rich-clad
rich-colored
rich-conceited
rich-distilled
rich-embroidered
rich-figured
rich-flavored
rich-fleeced
rich-fleshed
rich-glittering
rich-haired
rich-jeweled
rich-laden
rich-looking
rich-minded
rich-ored
rich-robed
rich-set
rich-soiled
rich-tasting
rich-toned
rich-voiced
rich-weed
rich-wrought
richard roe
richel bird
richly deserve
richly deserved
richness of meaning
ricinoleic acid
ricinus oil
rick carrier
rick-barton
rick-burton
rick-yard
rickettsial disease
ricochet fire
riectal bristle
rid of
rid yourself of
riddle ballad
riddle cake
riddle canon
riddle of the Sphinx
ride a broomstick
ride a hobby
ride a hobbyhorse
ride a storm
ride and tie
ride at anchor
ride bareback
ride down
ride easy
ride for a fall
ride full tilt against
ride gain
ride hard
ride hawse full
ride herd on
ride high
ride it out
ride on a rail
ride out
ride out a storm
ride out the storm
ride over
ride roughshod over
ride shank's mare
ride shank's pony
ride shotgun for
ride the beam
ride the high horse
ride the hobnail express
ride the sea
ride the shoe-leather
ride the skies
ride to a fall
ride to death
ride to hounds
ride to leeward
ride up
rider embolus
rider keelson
ridge beam
ridge buster
ridge fillet
ridge harrow
ridge oak
ridge plow
ridge rib
ridge rope
ridge runner
ridge stone
ridge strut
ridge tile
ridge-bone
ridge-seeded
ridge-tile
ridging grass
ridging plow
ridicule-proof
ridiculously like
riding academy
riding at anchor
riding boot
riding boots
riding breeches
riding crop
riding habit
riding hood
riding horse
riding lamp
riding light
riding master
riding on cloud nine
riding pants
riding rhyme
riding saddle
riding sail
riding school
riding-coat
riding-habit
riding-hood
rie grass
riemannian geometry
rien du tout
rien ne va plus
riff through
riff-raff
riffle bar
riffle block
riffle file
riffle through
rifle assembler
rifle ball
rifle bar
rifle bird
rifle bomb
rifle corps
rifle fire
rifle frock
rifle green
rifle grenade
rifle gun
rifle pit
rifle range
rifle salute
rifle shot
rifle tie
rifle-bird
rifle-range
rifle-shot
rifled slug
rift board
rift saw
rift valley
rift-sawed
rift-sawing
rift-sawn
rift-tuftty
rig down
rig for diving
rig out
rig shenanigan
rig the market
rig tree
rig up
rig-out
rig-up
rig-veda
rigged jury
rigged market
rigged oar
rigged out
rigger's knife
rigging angle of incidence
rigging loft
rigging plan
rigging screw
right about
right about face
right along
right along there with
right amount
right and left
right and proper
right angle
right as rain
right ascension
right away
right belief
right bower
right boys
right center
right circular cone
right circular cylinder
right conduct
right cylinder
right doctrine
right face
right field
right fielder
right five degrees rudder
right full rudder
right half rudder
right hand
right handsomely
right in the head
right itself
right line
right mind
right mood
right now
right of angry
right of asylum
right of center
right of common
right of eminent domain
right of emption
right of entry
right of preemption
right of put and call
right of search
right of sole emption
right of use
right of way
right off
right off the bat
right off the reel
right on
right on end
right people
right reverend
right rudder
right section
right side
right side of the tracks
right side of, the
right smart
right smart spell
right sort
right stage
right standard rudder
right taste
right ten degrees rudder
right thing, the
right thinking
right to vote
right triangle
right whale
right wing
right-mindedness
right-of-way
right-of-way signal
right-oh
right-onward
right-principled
right-running
right-shaped
right-shapen
right-side
right-sided
right-sidedly
right-sidedness
right-thinking
right-to-work law
right-turn
right-up
right-walking
right-wheel
right-wing
right-winger
right-wingish
right-wingism
rightabout-face
righteous indignation
righteous, the
righteye flounder
rightful authority
rightful succession
righting lever
righting moment
rights issue
rights of man
rights of women
rights-of-way
rigid airship
rigid control
rigid discipline
rigid frame
rigid motion
rigid supports
rigid-body
rigid-frame
rigid-nerved
rigid-seeming
rigor mortis
riled up
rilievi schiacciati
rilievo schiacciato
rilievo stiacciato
rill stope
rill-like
rim ash
rim blight
rim clutch
rim lighting
rim lock
rim man
rim of the horizon
rim pulley
rim ram ruf
rim saw
rim shaft
rim wheel
rim-bearing
rim-bending
rim-bound
rim-cut
rim-deep
rim-fire
rimble-ramble
rime frost
rime ice
rime riche
rime suffisante
rime-covered
rime-damp
rime-frost
rime-frosted
rime-laden
rimes riches
rimes suffisantes
riming stool
rince pichon
rind disease
rind fungus
rind gall
rind grafting
ring a bell
ring armature
ring armor
ring around the moon
ring around the sun
ring back
ring bander
ring binder
ring shake
ring shout
ring snake
ring spinner
ring spinning
ring spot
ring stone
ring taw
ring the bell
ring the changes
ring the tocsin
ring traveler
ring true
ring up
ring up the curtain
ring winding
ring with the praisess of
ring your praises
ring-a-lievio
ring-a-rosy
ring-adorned
ring-around
ring-banded
ring-bark
ring-billed
ring-billed duck
ring-billed gull
ring-bone
ring-bored
ring-bound
ring-chain isomerism
ring-chain tautomerism
ring-dove
ring-dyke
ring-eyed
ring-fence
ring-finger
ring-formed
ring-handled
ring-in
ring-legged
ring-man
ring-neck
ring-necked
ring-necked duck
ring-necked pheasant
ring-off
ring-oil
ring-porous
ring-ridden
ring-shaped
ring-shout
ring-small
ring-spinning frame
ring-straked
ring-streaked
ring-tailed
ring-tailed cat
ring-up
ringed about
ringed plain
ringed plover
ringed snake
ringing spindrift
ringing tone
ringside seat
ringtail topsail
ringworm bush
rink polo
rinka fadda
rinse out
riot act
riot away
riot gun
riot in
riot of color
riot of colors
riot police
riot squad
riotous living
rip apart
rip cord
rip current
rip from
rip hook
rip into
rip off
rip open
rip out
rip out an oath
rip panel
rip tide
rip to pieces
rip up
rip van winkle
rip-off
rip-rap
rip-roaring
rip-roaring drunk
rip-roarious
rip-saw
riparian right
ripe age
ripe for instruction
ripe idea
ripe old age
ripe rot
ripe stump
ripe wisdom
ripe-aged
ripe-bending
ripe-cheeked
ripe-colored
ripe-eared
ripe-faced
ripe-grown
ripe-looking
ripe-picked
ripe-red
ripe-tongued
ripe-witted
ripen into
riper years
ripper act
ripping bar
ripping chisel
ripping iron
ripping out
ripping panel
ripping punch
ripping size
ripple cloth
ripple current
ripple effect
ripple grass
ripple mark
ripple of applause
ripple of laughter
ripple plantain
ripple voltage
ripple weld
ripple-grass
rippling kame
ris de veau
ritual killing
ritual murder
ritual observance
ritual suicide
ritual uncleanness
ritualistic article
ritualistic book
ritualistic manual
ritually clean
ritually contaminated
ritually immerse
ritually impure
ritually pure
ritually unclean
ritt it
rivage green
river ash
river bank
river basin
river bass
river bed
river birch
river boulder
river bulrush
river carpsucker
river craft
river deer
river dolphin
river driver
river front
river grass
river gunboat
river horse
river jack
river lamprey
river locust
river maple
river mussel
river novel
river oak
river of Hades
river of death
river of oblivion
river pilot
river rat
river road
river shrew
river sunflower
river wattle
river-blanch
river-borne
river-bottom
river-caught
river-drift
river-fish
river-formed
river-given
river-god
river-goddess
river-horse
river-sundered
river-water
river-watered
river-worn
riverbank grape
rivet buster
rivet carrier
rivet catcher
rivet forge
rivet heater
rivet hole
rivet in the memory
rivet knob
rivet pitch
rivet set
rivet snap
rivet steel
rivet the eyes upon
rivet the mind on
rivet the thoughts on
rivet weld
rivet wheat
rivet your attention
riveting hammer
riveting knob
riveting stake
riving knife
riving machine
rix-dollar
rk-up
roach back
roach paste
roach powder
roach-back
roach-backed
roach-bellied
roach-bent
road agent
road binder
road book
road builder
road building
road cart
road compound
road contractor
road donkey
road drag
road fettler
road gang
road grader
road guard
road harrow
road hog
road horse
road layer
road maker
road making
road map
road mender
road metal
road monkey
road oil
road pen
road plow
road race
road racer
road racing
road rash
road repairer
road roller
road runner
road scraper
road show
road sign
road tar
road test
road train
road wagon
road wheel
road works
road-bike
road-faring
road-fund licence
road-grading
road-hoggish
road-hoggism
road-maker
road-oiling
road-ready
road-test
road-testing
road-train
road-weary
road-wise
roan-tree
roar like a bull
roar of laughter
roar up
roar with laughter
roaring drunk
roaring fire
roaring forties
roaring mad
roaring success
roaring trade
roast beef
roast meat
roast sintering
roast-beef plant
roasting ear
roasting hot
roasting jack
rob Peter to pay Paul
rob roy
rob the cradle
rob you of ease
rob you of rest
rob you of sleep
rob you of your illusions
robbed of
robbed of illusion
robber bee
robber crab
robber fly
robber frog
robbers' roost
robbery insurance
robe de chambre
robe of royalty
robe of state
robe-de-chambre
robes-de-chambre
rock crab
rock cress
rock crusher
rock crystal
rock cycle
rock dove
rock drill
rock driller
rock eel
rock elm
rock face
rock fern
rock festival
rock flint
rock flour
rock flower
rock garden
rock gardener
rock gardening
rock glacier
rock goat
rock goldenrod
rock grouse
rock gunnel
rock gypsum
rock hind
rock hole
rock hopper
rock hopping
rock hound
rock hyrax
rock jasmine
rock lever
rock lily
rock lobster
rock maple
rock melon
rock milk
rock moss
rock music
rock oak
rock oil
rock oyster
rock painting
rock phosphate
rock pigeon
rock pile
rock plant
rock pressure
rock rabbit
rock salmon
rock salt
rock sapphire
rock saw
rock saxifrage
rock seal
rock shelter
rock singer
rock snake
rock sparrow
rock spleenwort
rock spray
rock squirrel
rock the boat
rock the sky
rock thrush
rock to sleep
rock tripe
rock trout
rock violet
rock vole
rock wallaby
rock whiting
rock wool
rock wren
rock'n roll
rock-'n'-roll
rock-and-roll
rock-and-roll group
rock-and-roll singer
rock-based
rock-basin
rock-battering
rock-bed
rock-begirdled
rock-bestudded
rock-bethreatened
rock-boring
rock-bottom
rock-bottom prices
rock-bound
rock-breaking
rock-built
rock-cistus
rock-clad
rock-cleft
rock-shaft
rock-sheltered
rock-steady
rock-strewn
rock-studded
rock-throned
rock-thwarted
rock-torn
rock-weed
rock-wombed
rock-work
rock-worked
rockbound coast
rocker arm
rocker bent
rocker cam
rocker panel
rocket airplane
rocket and missile names
rocket apparatus
rocket assist
rocket boat
rocket bomb
rocket car
rocket engine
rocket engineer
rocket engineering
rocket exhaust
rocket fire
rocket firing
rocket fuel
rocket glider
rocket gun
rocket harpoon
rocket laboratory
rocket larkspur
rocket launcher
rocket launching
rocket man
rocket motor
rocket pilot
rocket plane
rocket power
rocket program
rocket project
rocket propulsion
rocket research
rocket salad
rocket science
rocket scientist
rocket ship
rocket sled
rocket society
rocket technician
rocket technology
rocket testing
rocket to the moon
rocket torpedo
rocket-borne
rocket-firing plane
rocket-propelled
rocketing up
rocking bed
rocking chair
rocking horse
rocking rhythm
rocking stone
rocking valve
rocks ahead
rockweed bird
rocky mountain sheep
rocky mountain spotted fever
rod adaptation
rod and reel
rod bayonet
rod bolt
rod breaker
rod epithelium
rod fiber
rod granule
rod mill
rod of empire
rod of office
rod peeler
rod rigging
rod vision
rod-bending
rod-boring
rod-caught
rod-cone theory
rod-drawing
rod-healing
rod-pointing
rod-polishing
rod-shaped
rodded joint
roll scale
roll the stone of Sisyphus
roll top
roll train
roll under the tongue
roll up
roll up into a ball
roll up your sleeves
roll welding
roll with the punches
roll-about
roll-away bed
roll-call
roll-collar
roll-cumulus
roll-leaf
roll-on/roll-off
roll-out
roll-over
roll-top
roll-top desk
roll-turning lathe
rolled flat
rolled glass
rolled gold
rolled into one
rolled oats
rolled roast
rolled-steel joist
roller bandage
roller bar
roller bearing
roller blind
roller bowl
roller chain
roller chock
roller coaster
roller dam
roller derby
roller fairlead
roller gate
roller gear
roller gin
roller grinder
roller jewel
roller mill
roller nest
roller press
roller shade
roller skate
roller skater
roller skates
roller skating
roller stock
roller towel
roller-backer
roller-blind shutter
roller-carrying
roller-grinding
roller-made
roller-milled
roller-milling
roller-reefing gear
roller-skate
roller-skated
roller-skating
roller-top
rolling barrage
rolling bunt
rolling chock
rolling country
rolling crest dam
rolling fire
rolling friction
rolling hitch
rolling hitches
rolling in money
rolling in wealth
rolling kitchen
rolling machine
rolling mill
rolling on
rolling pin
rolling press
rolling rope
rolling stock
rolling stone
rolling-contact bearing
rolling-element bearing
rolling-key clutch
rolling-mill
rolling-pin
rolling-press
rolltop desk
roly-polistness
roly-poly
roly-poly grass
romaine lettuce
roman a clef
roman architecture
roman calendar
roman candle
roman catholic
roman collar
roman numeral
roman-fleuve
romance stanza
romance-empurpled
romance-hallowed
romance-inspiring
romance-making
romance-writing
romano-
romantic bond
romantic comedy
romantic melancholy
romantic tie
romantic tragedy
romantico-heroic
romantico-robustious
rome-penny
rome-scot
romp home
romp through
rond de jambe
rondeau redouble
rondo form
ronds de jambe
rood altar
rood arch
rood beam
rood cloth
rood goose
rood ladder
rood loft
rood screen
rood spire
rood stair
rood stairs
rood steeple
rood tower
rood-day
roof beam
roof board
roof bracket
roof cover
roof covering
roof dome
roof door
roof fixer
roof garden
roof gardener
roof guard
roof high
roof in
roof iris
roof line
roof nucleus
roof over
roof over your head
roof plate
roof prism
roof rack
roof rat
roof ridge
roof thatch
roof tile
roof truss
roof-blockaded
roof-building
roof-climbing
roof-deck
roof-draining
roof-dwelling
roof-gardening
roof-haunting
roof-reaching
roof-shaped
roof-tree
roofed-in
roofed-over
roofing nail
roofing paper
roofing tile
rook-coated
rooketty-coo
room and board
room clerk
room decoration
room decorator
room divider
room service
room temperature
room to spare
room to swing a cat
room trader
room-and-pillar
room-mate
room-ridden
room-temperature
rooming house
roost cock
roosting place
root and branch
root beer
root beer float
root borer
root canal
root canal therapy
root canal treatment
root cap
root cell
root cellar
root chord
root climber
root crop
root cutting
root determinative
root disease
root division
root field
root for
root gall
root graft
root grafting
root hair
root in
root knot
root mean square
root nodule
root of all evil
root on
root out
root parasite
root position
root pressure
root rot
root sheath
root test
root tip
root up
root vole
root weevil
root-bound
root-bruising
root-built
root-devouring
root-digging
root-eating
root-feeding
root-hardy
root-inwoven
root-mean-square
root-neck
root-parasitic
root-parasitism
root-prune
root-pruned
root-stock
root-torn
rooted belief
rooting out
rope belting
rope brake
rope bridge
rope brown
rope dancer
rope enough to hang yourself
rope greaser
rope house
rope in
rope ladder
rope machine
rope maker
rope molding
rope of sand
rope off
rope race
rope railway
rope shoes
rope socket
rope spinner
rope stitch
rope twine
rope yarn
rope's end
rope-hand
rope-bound
rope-closing
rope-dancer
rope-driven
rope-driving
rope-end
rope-fastened
rope-girt
rope-laying
rope-muscled
rope-pulling
rope-reeved
rope-shod
rope-sight
rope-spinning
rope-stock
rope-stroped
rope-work
rope-yarn
rope-yarn knot
roped off
roping horse
roping palm
ropy lava
rory-cum-tory
rory-tory
ros solis
rosa solis
rosa solises
rosary pea
rosary plant
rosary ring
rosary shell
rose acacia
rose aphid
rose apple
rose beetle
rose beige
rose bengale
rose blush
rose box
rose campion
rose carnation
rose chafer
rose champagne
rose chestnut
rose cold
rose comb
rose cross
rose-breasted grosbeak
rose-bright
rose-bush
rose-campion
rose-carved
rose-chafer
rose-cheeked
rose-clad
rose-color
rose-colored
rose-colored glasses
rose-colored spectacles
rose-colorist
rose-colour
rose-coloured
rose-combed
rose-covered
rose-crowned
rose-cut
rose-diamond
rose-diffusing
rose-drop
rose-eared
rose-engine
rose-ensanguined
rose-faced
rose-fingered
rose-flowered
rose-fresh
rose-gathering
rose-geranium oil
rose-growing
rose-headed
rose-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-ringled
rose-root
rose-scented
rose-shell reamer
rose-slug
rose-sweet
rose-tinged
rose-tinted
rose-tree
rose-warm
rose-water
rose-window
rose-wreathed
rosemary oil
roseo-
rosetta stone
rosetta wood
rosetta-wood
rosette plate
rosewood oil
rosh hashanah
rosin grease
rosin jack
rosin oil
rosin plant
rosin rose
rosin soap
rosin spirit
rosso antico
rostral column
rosy era
rosy expectation
rosy finch
rosy outlook
rosy pastor
rosy-armed
rosy-blushing
rosy-bosomed
rosy-cheeked
rosy-colored
rosy-crimson
rosy-dancing
rosy-eared
rosy-faced
rosy-finger'd morn
rosy-fingered
rosy-hued
rosy-lipped
rosy-purple
rosy-red
rosy-tinted
rosy-tipped
rosy-toed
rosy-warm
rot grass
rot-gut
rot-steep
rotary cultivator
rotary current
rotary drill
rotary engine
rotary gap
rotary hoe
rotary photogravure
rotary plough
rotary plow
rotary press
rotary pump
rotary shutter
rotary storm
rotary tiller
rotary wing
rotary-beam antenna
rotary-cut
rotary-piston engine
rotary-wing aircraft
rotating prism
rotating spit
rotation axis
rotation band
rotation of axes
rotation pool
rotation-inversion axis
rotational motion
rote learning
rote memory
rote song
rother nail
roto section
rotogravure press
rotor cloud
rotor motor
rotor plane
rotor ship
rott goose
rotten at
rotten at the core
rotten borough
rotten break
rotten egg
rotten humor
rotten ice
rotten luck
rotten row
rotten smell
rotten stop
rotten to the core
rotten-dry
rotten-egg
rotten-hearted
rotten-heartedly
rotten-heartedness
rotten-minded
rotten-planked
rotten-red
rotten-rich
rotten-ripe
rotten-stone
rotten-throated
rotten-timbered
rotundi-
rotundo-
rotundo-ovate
rouge et noir
rouge plant
rough air
rough bent
rough bluegrass
rough breathing
rough cast
rough copy
rough corners
rough diamond
rough draft
rough edges
rough fish
rough go
rough guess
rough in
rough it
rough leaf
rough loader
rough log
rough measure
rough out
rough outline
rough passage
rough puff pastry
rough sea
rough sketch
rough spot
rough stuff
rough surface
rough trade
rough turner
rough up
rough usage
rough water
rough weather
rough wine
rough woodbine
rough-and-readiness
rough-and-ready
rough-and-tumble
rough-backed
rough-barked
rough-bearded
rough-bedded
rough-billed
rough-blustering
rough-board
rough-bordered
rough-cast
rough-cheeked
rough-clad
rough-clanking
rough-coat
rough-coated
rough-cut
rough-draw
rough-dried
rough-dry
rough-drying
rough-edge
rough-edged
rough-enter
rough-face
rough-faced
rough-feathered
rough-finned
rough-foliaged
rough-footed
rough-form
rough-fruited
rough-furrowed
rough-grained
rough-grind
rough-grinder
rough-grown
rough-hackle
rough-hackled
rough-haired
rough-handed
rough-handedness
rough-headed
rough-hew
rough-hew them how we will
rough-hewed
rough-hewing
rough-hewn
rough-hob
rough-hobbed
rough-hull
rough-jacketed
rough-keeled
rough-leaved
rough-legged
rough-legged buzzard
rough-legged hawk
rough-level
rough-lipped
rough-living
rough-looking
rough-mannered
rough-necked
rough-paved
rough-plain
rough-plane
rough-plastered
rough-plow
rough-plumed
rough-pooded
rough-point
rough-ream
rough-reddened
rough-rider
rough-ridged
rough-roll
rough-sawn
rough-scaled
rough-seeded
rough-shape
rough-sketch
rough-skinned
rough-spirited
rough-spoken
rough-square
rough-stalked
rough-stemmed
rough-stone
rough-stringed
rough-surfaced
rough-swelling
rough-tailed
rough-tanned
rough-tasted
rough-textured
rough-thicketed
rough-toned
rough-tongued
rough-toothed
rough-tree
rough-tree rail
rough-turn
rough-turned
rough-voiced
rough-walled
rough-weather
rough-winged
rough-winged swallow
rough-write
rougher-down
rougher-out
rougher-up
roughing mill
roughing roll
roughing stone
roughing-in
roughly speaking
roulette table
roulette wheel
round a bend
round a corner
round a point
round about
round and round
round angle
round arch
round as a ball
round clam
round dance
round-bellied
round-beset
round-billed
round-blazing
round-bodied
round-boned
round-bottomed
round-bowed
round-bowled
round-built
round-cell sarcoma
round-celled
round-cornered
round-crested
round-dancer
round-eared
round-edge
round-edged
round-end
round-eyed
round-faced
round-fenced
round-footed
round-fruited
round-furrowed
round-hand
round-handed
round-headed
round-heart
round-hoofed
round-horned
round-house
round-leafed
round-leaved
round-leaved dogwood
round-limbed
round-lipped
round-lobed
round-made
round-mouthed
round-nosed
round-podded
round-pointed
round-ribbed
round-rolling
round-rooted
round-seeded
round-shapen
round-shouldered
round-shouldred
round-sided
round-skirted
round-spun
round-stalked
round-table
round-table conference
round-tailed
round-the-clock
round-toed
round-topped
round-trip
round-trip ticket
round-tripper
round-trussed
round-turning
round-up
round-visaged
round-winged
round-wombed
round-worm
roundabout chair
roundabout system
roundabout way
rounded out
roundheaded apple tree borer
roundhouse curve
rounding adz
rounding off
rounding out
rounding-out
roundish-deltoid
roundish-faced
roundish-featured
roundish-leaved
roundish-ovate
roundish-oval
roundish-ovate
roundish-shaped
roundnose chisel
rouse out
rout cake
rout chair
rout out
rout seat
route army
route march
royal crown
royal duke
royal fern
royal fizz
royal flush
royal grant
royal icing
royal insignia
royal jelly
royal lily
royal marriage
royal mast
royal oak
royal palm
royal pendulum
royal personage
royal pink
royal poinciana
royal prerogative
royal purple
royal quarto
royal red
royal road
royal seat
royal stag
royal standard
royal tennis
royal warrant
royal water lily
royal-born
royal-chartered
royal-hearted
royal-rich
royal-souled
royal-spirited
royal-towered
royston crow
ruat caelum
rub against
rub against the grain
rub along
rub away
rub down
rub elbows with
rub in
rub iron
rub it in
rub noses
rub off
rub off corners
rub on
rub out
rub salt in the wound
rub the lamp
rub the picture off a nickel
rub the print off a dollar bill
rub the right way
rub the ring
rub the wrong way
rub up
rub your eyes
rub your hands
rub-a-dub
rub-dub
rubaiyat stanza
rubarth's disease
rubber ball
rubber band
rubber bandage
rubber cement
rubber check
rubber cheque
rubber cloth
rubber dinghy
rubber gloves
rubber goods
rubber hydrocarbon
rubber knife
rubber latex
rubber mallet
rubber oil
rubber plant
rubber plate
rubber shoes
rubber snake
rubber spreader
rubber stamp
rubber tissue
rubber tree
rubber varnisher
rubber vine
rubber-base paint
rubber-block print
rubber-coated
rubber-collecting
rubber-cored
rubber-covered
rubber-cutting
rubber-down
rubber-faced
rubber-growing
rubber-headed
rubber-lined
rubber-mixing
rubber-off
rubber-producing
rubber-proofed
rubber-reclaiming
rubber-set
rubber-slitting
rubber-soled
rubber-spreading
rubber-stamp
rubber-testing
rubber-tired
rubber-varnishing
rubber-yielding
rubberneck tour
rubbing alcohol
rubbing away
rubbing block
rubbing off
rubbing out
rubbing stone
rubbing varnish
rubbing-stone
rubbish bin
rubbish heap
rubbish unloader
rubble car
rubble masonry
rubble-work
rube faction
rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
ruby blende
ruby copper
ruby fly
ruby glass
ruby grass
ruby pin
ruby port
ruby red
ruby roller
ruby silver
ruby spaniel
ruby spinel
ruby sulphur
ruby wood
ruby zinc
ruby-berried
ruby-budded
ruby-circled
ruby-colored
ruby-crested
ruby-crowned
ruby-crowned kinglet
ruby-eyed
ruby-faced
ruby-headed
ruby-hued
ruby-lipped
ruby-lustered
ruby-necked
ruby-red
ruby-set
ruby-studded
ruby-throated
ruby-throated hummingbird
ruby-tinctured
ruby-tinted
ruby-toned
ruby-visaged
ruck up
rudder amidships
rudder angle
rudder band
rudder bar
rudder brake
rudder chain
rudder coat
rudder crosshead
rudder fish
rudder horn
rudder pedals
rudder pendant
rudder snug
rudder tackle
rudder torque
rudder-fish
ruddy duck
ruddy-bright
ruddy-brown
ruddy-cheeked
ruddy-colored
ruddy-complexioned
ruddy-faced
ruddy-gold
ruddy-haired
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
rude awakening
rude health
rude justice
rude reproach
rude-carved
rude-ensculptured
rude-fanged
rude-fashioned
rude-featured
rude-growing
rude-hewn
rude-looking
rude-made
rude-mannered
rude-spoken
rude-spoken rude-spun
rude-spun
rude-thoughted
rude-tongued
rude-washed
rudge wash
rue anemone
rue bargain
rue fern
rue oil
rue spleenwort
rue the day
ruff-coat
ruff-necked
ruff-tree
ruffed grouse
ruffian-like
ruffle your feathers
ruffle-
ruffle-headed
ruffled feelings
ruffy-tuffy
rufi-
rufo-
rufous-backed
rufous-banded
rufous-bellied
rufous-billed
rufous-breasted
rufous-brown
rufous-buff
rufous-chinned
rufous-colored
rufous-crowned
rufous-edged
rufous-haired
rufous-headed
rufous-hooded
rufous-naped
rufous-necked
rufous-rumped
rufous-spotted
rufous-tailed
rufous-tinged
rufous-toed
rufous-vented
rufous-winged
rufous-yellow
rufter hood
rufter-hood
rufty-tufty
rug designer
rug gown
rug maker
rug-cutter
rug-cutting
rug-gowned
rugby league
rugby union
rugged health
rugged individualism
rugged individualist
rugosa rose
rugose-leaved
rugose-punctate
ruhmkorff coil
ruin agate
rum barge
rum blossom
rum cherry
rum essence
rum hound
rum mill
rum one
rum punch
rum ram ruf
rum shrub
rum sucker
rum truffle
rum-bred
rum-crazed
rum-drinking
rum-dum
rum-fired
rum-flavored
rum-hole
rum-mill
rum-nosed
rum-producing
rum-selling
rum-smelling
rumble seat
rumble-bumble
rumble-tumble
ruminate over
rummage out
rummage sale
rumored about
rump bone
rump roast
rump steak
rump-fed
rumpled feathers
rumpus room
run a chance
run a comparison
run a deficit
run a good chance
run a race
run a sample
run a specimen
run a temperature
run a tight ship
run a tilt
run a tilt at
run about
run abreast
run across
run afoul of
run after
run against
run aground
run along
run amok
run amuck
run an experiment
run around
run around with
run at
run at flank speed
run away
run away from
run away with
run back
run before
run before the wind
run before you can walk
run broadside on
run by
run circles around
run counter to
run down
run down the latitude
run down the wind
run dry
run end on
run for
run for it
run for office
run for your life
run for your money
run foul of
run from
run head and head
run head on
run in
run in couples
run in opposition to
run in pursuit of
run in the blood
run in the family
run in the head
run in with
run interference for
run into
run into a brick wall
run into a corner
run into danger
run into debt
run into money
run into port
run into the ground
run its course
run like a scared rabbit
run like mad
run low
run mad
run mad after
run neck and neck
run of luck
run of the cards
run of the mill
run of things
run off
run off at the mouth
run off with
run on
run on in a groove
run on like a mill race
run on the rocks
run out
run out a rope
run out a warp
run out of
run out of patience
run out of steam
run out of time
run out of town
run out on
run over
run parallel
run parallel to
run prow on
run ragged
run rings around
run riot
run scared
run short
run short of
run smack into
run smoothly
run the chance
run the eye over
run the eye through
run the fingers over
run the gauntlet
run the hazard
run the risk
run the show
run through
run to
run to earth
run to seed
run to waste
run together
run true to form
run true to type
run under bare poles
run up
run up a bill
run up a score
run up against
run up an account
run upon
run upon a bank
run wide open
run wild
run with
run with the pack
run with the wind
run with the wind quartering
run you hard
run your eye over
run your head against
run-about
run-around
run-down
run-down neighborhood
run-in
run-of-mill
run-of-mine
run-of-paper
run-of-the-mill
run-of-the-mine
run-on
run-on sentence
run-out
run-over
run-through
run-up
runaround, the
runaway ship
runaway shop
runaway victory
runcible spoon
rune-bearing
rune-inscribed
rune-staff
rune-stave
rune-stone
rung of the ladder
runic alphabet
runic character
runic symbol
runic verse
runner and tackle
runner bean
runner foot
runner peanut
runner stick
runner tackle
runner-up
runners-up
running English
running account
running away
running board
running bond
running bowline
running bowsprit
running broad jump
running commentary
running dive
running dog
running down
running engagement
running fight
running fire
running fit
running for office
running free
running gaff
running gate
running gear
running hand
running head
running high jump
rural route
rural science
rus in urbe
rush about
rush ahead
rush along
rush around
rush at
rush basket
rush bearing
rush broom
rush candle
rush daffodil
rush garlic
rush grass
rush hour
rush in
rush into
rush light
rush lily
rush marsh grass
rush of emotion
rush off
rush order
rush ring
rush through
rush to the assistance of
rush up on one
rush up on you
rush wheat
rush-bearer
rush-bearing
rush-bordered
rush-bottomed
rush-candle
rush-floored
rush-fringed
rush-girt
rush-grown
rush-hour
rush-leaved
rush-like
rush-margined
rush-ring
rush-seated
rush-stemmed
rush-strewn
rush-wove
rush-woven
russel cord
russell's viper
russet coat
russet-backed
russet-bearded
russet-brown
russet-coated
russet-colored
russet-golden
russet-green
russet-pated
russet-robed
russet-roofed
russia leather
russian blue
russian olive
russian thistle
russian wolfhound
russo-
rust brown
rust bucket
rust cement
rust coat
rust fungus
rust joint
rust mite
rust of antiquity
rust together
rust-cankered
rust-colored
rust-complexioned
rust-eaten
rust-preventing
rust-proofed
rust-red
rust-removing
rust-resisting
rust-stained
rust-worn
rust-yellow
rustic region
rustic style
rustic work
rustle up
rusts smuts
rusty black
rusty blackbird
rushed dab
rushed gum
rushed-branched
rushed-brown
rushed-coated
rushed-collared
rushed-colored
rushed-crowned
rushed-dusty
rushed-fusty
rushed-leaved
rushed-looking
rushed-red
rushed-rested
rushed-spotted
rushed-throated
ruthenium oxide
ruthenium red
rutherford atom
rye bread
rye grass
rye rust
rye smut
rye whiskey
rye whisky
rye-bread
rye-brome
rye-grass
s ap
s os
s t
s'il vous pla
s'il vous plait
sa sa
sab-cat
sabai grass
sabbath school
sabbath-day
sabbatical leave
sabbatical year
saber bean
saber fish
saber knot
saber rattling
saber shin
saber-legged
saber-rattling
saber-shaped
saber-toothed
saber-toothed cat
saber-toothed tiger
sabicu wood
sable antelope
sable iron
sable night
sable-bordered
sable-cinctured
sable-cloaked
sable-colored
sable-hooded
sable-lettered
sable-robed
sable-spotted
sable-stoled
sable-suited
sable-vested
sable-vested Night
sable-visaged
sabre-toothed tiger
sac de nuit
sac fungus
sac-a-lait
sac-wrist
sacchar-
saccharic acid
saccharifying enzyme
saccharin insoluble
saccharin sodium
saccharine sorghum
saccharo-
saccharolactic acid
sacer vates
sachet powder
sack baler
sack baling
sack beater
sack borer
sack carrier
sack checker
sack cleaner
sack cloud
sack coal
sack coat
sack collector
sack cutter
sack doubler
sack dress
sack duty
sack elevator
sack emptier
sack examiner
sack hand
sack hoist
sack holder
sack lifter
sack machinist
sack maker
sack mender
sack moth
sack out
sack packer
sack printer
sack race
sack racer
sack racing
sack repairer
sack running
sack searcher
sack sewer
sack shaker
sack shoot
sack sorter
sack store
sack suit
sack superintendent
sack tackle
sack the
sack time
sack tree
sack up
sack weight
sack-bearer
sack-coated
sack-formed
sack-sailed
sack-shaped
sack-winged
sackcloth and ashes
sacking needle
sacr-
sacra peregrina
sacrament chapel
sacrament cloth
sacrament house
sacrament of matrimony
sacramental anointment
sacramental offering
sacramental wine
sacred Nine
sacred anchor
sacred article
sacred baboon
sacred bamboo
sacred calling
sacred canon
sacred cow
sacred ibis
sacred lotus
sacred mushroom
sacred music
sacred orders
sacred quality
sacred relics
sacred thread
sacred unction
sacred writings
sacred, the
sacred-bean family
sacrifice bunt
sacrifice fly
sacrifice hit
sacrifice yourself for
sacrificial anode
sacring bell
sacring-bell
sacro-
sacro-uterine
sad cake
sad case
sad disappointment
sad of heart
sad person
sad sack
sad sack of shit
sad times
sad tree
sad work
sad-a-vised
sad-colored
sad-eyed
sad-faced
sad-iron
sad-looking
sad-natured
sad-paced
sad-seeming
sad-tuned
sad-voiced
saddle band
saddle bar
saddle blanket
saddle block
saddle boiler
saddle bracket
saddle carpenter
saddle case
saddle chimes
saddle clip
saddle crutch
saddle currier
saddle cutter
saddle feathers
saddle fitter
saddle flange
saddle flap
saddle fungus
saddle gall
saddle girth
saddle glacier
saddle grafting
saddle gun
saddle hackle
saddle hand
saddle hip
saddle horn
saddle horse
saddle house
saddle hub
saddle iron
saddle joint
saddle key
saddle lap
saddle lashing
saddle leather
saddle maker
saddle making
saddle mat
saddle nail
saddle of mutton
saddle on
saddle-bow
saddle-check chair
saddle-cloth
saddle-fast
saddle-galled
saddle-girt
saddle-graft
saddle-nosed
saddle-shaped
saddle-sore
saddle-spotted
saddle-stitch
saddle-tree
saddle-wired
saddleback roof
saddleback stitch
sadist torturer
sadistic cruelty
saeva indignatio
safari ant
safari jacket
safari park
safari suit
safe and sound
safe builder
safe district
safe edge
safe finisher
safe fitter
safe hands
safe haven
safe lifter
safe lock
safe maker
safe painter
safe period
safe stuffer
safe-bestowed
safe-blower
safe-borne
safe-breaker
safe-conduct
safe-cracker
safe-deposit
safe-deposit box
safe-deposit vault
safe-edge file
safe-hidden
safe-hold
safe-keeping
safe-marching
safe-moored
safe-sequestered
safe-time
safeguarding duty
safety arch
safety belt
safety bicycle
safety bolt
safety buoy
safety cage
safety car
safety catch
safety chain
safety clause
safety control
safety curtain
safety disk
safety dog
safety edge
safety equipment
safety explosive
safety factor
safety film
safety first
safety funnel tube
safety fuse
safety fuze
safety glass
safety hanger
safety hoist
safety hook
safety island
safety isle
safety lamp
safety lift
safety link
safety lintel
safety lock
safety loop
safety man
safety match
safety nut
safety paper
safety pin
safety pinion
safety plug
safety rail
safety razor
safety roller
safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
safety switchboard
safety tire
safety tube
safety valve
safety wire
safety zone
safety-deposit
safety-deposit box
safety-deposit vault
safety-fund system
safety-pin
safety-valve
safflower carmine
safflower oil
safflower red
saffron cake
saffron cordial
saffron crocus
saffron gatherer
saffron kiln
saffron oil
saffron plum
saffron robe
saffron thistle
saffron veil
saffron yellow
saffron-colored
saffron-hued
saffron-yellow
safrano pink
sag rod
sag to leeward
saga novel
sage Derby
sage ale
sage apple
sage brush green
sage cheese
sage chippy
sage cock
sage green
sage grouse
sage hare
sage hen
sage mullein
sage oil
sage rabbit
sage sparrow
sage tea
sage thrasher
sage tree
sage willow
sage wine
sage wormwood
sage-colored
sage-covered
sage-leaf
sage-leaf mullein
sage-leaved
sagging in folds
sagging market
sagittal suture
sago fern
sago flour
sago grass
sago palm
sago plant
sago spleen
sago tree
sahuca bean
sail against the wind
sail arm
sail away
sail away from
sail before the wind
sail burton
sail by the wind
sail canvas
sail carrier
sail close to the wind
sail close-hauled
sail closer to the wind
sail coast-wise
sail down the wind
sail drill
sail duck
sail fine
sail fluke
sail for
sail free
sail full and by
sail furler
sail gang
sail grommet
sail ho
sail hook
sail hoop
sail in the teeth of the wind
sail in the wind's eye
sail into
sail into the wind's eye
sail keeper
sail lizard
sail loft
sail model
sail near the wind
sail needle
sail netting
sail off the wind
sail on the wind
sail packet
sail part
sail plan
sail pulley
sail room
sail rope
sail round
sail sewer
sail sewing
sail the ocean blue
sail the sea
sail thimble
sail thread
sail to the windward of
sail to windward
sail too close to the wind
sail too near the wind
sail trimmer
sail twine
sail under false colors
sail with the wind
sail with the wind aft
sail with the wind quartering
sailor tie
sailor's breastplate
sailor's choice
sailor's knot
sailor's-choice
sailor-fashion
sailor-fisherman
sailor-looking
sailor-mind
sailor-poet
sailor-soul
sailor-train
sailors' snug harbor
saint agnes's eve
saint andrews's cross
saint anthony's cross
saint anthony's fire
saint bernard
saint elmo's fire
saint louis encephalitis
saint maker
saint making
saint martin's summer
saint valentine's day
saint's day
saint's legend
saint-errant
saint-errantry
saint-john's-wort
saker falcon
sal alembroth
sal ammoniac
sal armoniac
sal soda
sal tartari
sal tree
sal volatile
sal-ammoniac
sal-prunella
salaam aleikum
salad bowl
salad burnet
salad course
salad days
salad dish
salad dressing
salad fork
salad herb
salad nicoise
salad oil
salad plate
salad rocket
salad server
salad spoon
salad tree
salai tree
salamander stove
salaried worker
salary deduction
salary savings insurance
sale and leaseback
sale at auction
sale block
sale by auction
sale note
sale price
sale to the highest bidder
sale-over
saleratus weed
sales account
sales agency
sales agent
sales book
sales campaign
sales check
sales engineer
sales floor
sales force
sales journal
sales ledger
sales manager
sales note
sales personnel
sales pitch
sales promotion
sales register
sales resistance
sales talk
sales tax
salfern stoneseed
sali-
salic law
salicyl alcohol glucoside
salicylic acid
salicylic aldehyde
salient angle
salient fact
salient point
salino-
salisbury steak
salivary digestion
salivary gland
salivary glands
salivary secretion
salk vaccine
salle a manger
salle d'armes
salle d'attente
salle de danse
sallee-man
sallow-cheeked
sallow-colored
sallow-complexioned
sallow-faced
sallow-looking
sallow-visaged
sally forth
sally lunn
sally picker
sally port
salmon brick
salmon cloud
salmon color
salmon disease
salmon family
salmon fisher
salmon fisherman
salmon fishery
salmon fishing
salmon fly
salmon hatchery
salmon herring
salmon ladder
salmon loaf
salmon oil
salmon peal
salmon pink
salmon river
salmon rod
salmon smelt
salmon spear
salmon spearing
salmon steak
salmon tail
salmon trout
salmon wheel
salmon-breeding
salmon-colored
salmon-haunted
salmon-pink
salmon-rearing
salmon-red
salmon-tinted
salmon-trout
salon de beaute
salon music
saloon bar
saloon car
saloon carriage
saloon deck
saloon keeper
saloon pistol
salping-
salpingo-
salpingo-oophorectomy
salpingo-oophoritis
salpingo-ovariotomy
salpingo-ovaritis
salpingo-ureterostomy
salt a mine
salt acid
salt and pepper beard
salt and pepper hair
salt away
salt barrel
salt bed
salt beef
salt block
salt bottom
salt box
salt brig
salt cake
salt cedar
salt chrome
salt coffer
salt conveyer
salt crusher
salt crystal
salt dome
salt down
salt drawer
salt dryer
salt duty
salt eel
salt elevator
salt evaporator
salt filler
salt filter
salt fireman
salt firm
salt fish
salt flat
salt furnace
salt garden
salt gauge
salt glaze
salt glazing
salt grainer
salt grape
salt grass
salt grinder
salt hay
salt heaver
salt holder
salt horse
salt in the wound
salt junk
salt kettle
salt lake
salt lick
salt loader
salt lump
salt maker
salt marsh
salt master
salt millman
salt mine
salt miner
salt of phosphorus
salt of sorrel
salt of the earth
salt out
salt pack
salt pan
salt pansmith
salt pit
salt plug
salt pocket
salt pond
salt pork
salt prairie
salt press
salt rammer
salt reed grass
salt refiner
salt rheum
salt room
salt screen
salt sea
salt seller
salt shaker
salt shop
salt shovel
salt soda
salt something away
salt spoon
salt spring
salt stain
salt stick
salt tax
salt tree
salt trimmer
salt trough
salt vase
salt washer
salt water
salt well
salt yard
salt-and-pepper
salt-box
salt-box house
salt-cat
salt-cellar
salt-cured
salt-edged
salt-free diet
salt-glazed
salt-glazed ware
salt-green
salt-hard
salt-incrusted
salt-laden
salt-loving
salt-marsh aster
salt-marsh caterpillar
salt-marsh fleabane
salt-marsh gerardia
salt-marsh goldenrod
salt-marsh grass
salt-marsh hen
salt-marsh mosquito
salt-marsh moth
salt-marsh terrapin
salt-meadow grass
salt-pan
salt-rheum weed
salt-rising
salt-rising bread
salt-spilling
salt-watery
salt-white
salted peanuts
salting bath
salting box
salting house
salting kit
salting pan
salting press
salting room
salting trough
salting tub
salt peter paper
salt peter rot
saltwater sailor
saltwater taffy
saltwort family
salus populi suprema lex esto
salutatory address
salute with
saluto dor
saluto doro
salvage corps
salvage man
salvation army
salve bug
salve mull
salver-shaped
salvia blue
salvinia family
salvo point
sam browne
sam browne belt
sam-sodden
samadera bark
same but different
same here
same mind
same old story
same, the
same-colored
same-featured
same-minded
same-seeming
same-sized
same-sounding
sample ballot
sample book
sample bottle
sample box
sample boy
sample cabinet
sample card
sample carrier
sample case
sample catcher
sample cutter
sample drawer
sample driller
sample envelope
sample holder
sample maker
sample making
sample ore
sample passer
sample phial
sample picker
sample point
sample porter
sample roll
sample room
sample space
sample tester
sample trunk
sample vial
sampling inspection
sampling shovel
samson post
samson's post
san benito
san jacinto day
san jose scale
san-gaku
sancho panza
sancho pedro
sancte bell
sanctimonious fraud
sanction mark
sanctioned behavior
sanctioned conduct
sanctuary knocker
sanctuary ring
sanctum sanctorum
sanctus bell
sanctus turret
sand anchor
sand badger
sand bar
sand bath
sand bear
sand bellows
sand belt
sand binder
sand bird
sand blackberry
sand blaster
sand blindness
sand block
sand blower
sand bluestem
sand boil
sand brier
sand buffer
sand bug
sand bunker
sand burner
sand calciner
sand car
sand caster
sand casting
sand castle
sand cherry
sand chute
sand clam
sand clock
sand cloth
sand clover
sand cock
sand collar
sand column
sand cone
sand conveyer
sand corn
sand martin
sand mason
sand mist
sand mixer
sand mold
sand molding
sand mole
sand monitor
sand mouse
sand mullet
sand myrtle
sand nettle
sand oat
sand pail
sand painter
sand painting
sand partridge
sand pear
sand phlox
sand pig
sand pigeon
sand pike
sand pile
sand pillar
sand pine
sand pipe
sand pit
sand plain
sand plover
sand plum
sand prey
sand pride
sand pump
sand rat
sand reed
sand reef
sand reel
sand rocket
sand roll
sand roller
sand runner
sand saucer
sand scoop
sand screw
sand sedge
sand shark
sand shell
sand shoe
sand skink
sand skipper
sand smelt
sand snake
sand snipe
sand spout
sand spurry
sand squeteague
sand star
sand stargazer
sand strake
sand sucker
sand swallow
sand table
sand tester
sand tiger
sand trap
sand trout
sand tube
sand verbena
sand vetch
sand vine
sand violet
sand viper
sand walk
sand wasp
sand whiting
sand widgeon
sand yacht
sand-bag
sand-bar willow
sand-belt machine
sand-blight
sand-blind
sand-blindness
sand-blown
sand-bottomed
sand-box
sand-built
sand-buried
sand-burned
sand-cast
sand-cloth
sand-colored
sand-etched
sand-faced
sand-finished
sand-float finish
sand-floated
sand-fly bush
sand-fly fever
sand-glass
sand-groper
sand-hemmed
sand-hill
sand-hill bloom
sand-hill crane
sand-hill rose
sand-hill rosemary
sand-hiller
sand-lime
sand-lime brick
sand-lot
sand-paper
sand-red
sand-strewn
sand-struck
sand-warped
sandal brick
sandal tree
sandalwood family
sandalwood oil
sandalwood tan
sandarac tree
sandbeach grape
sandbox tree
sanders blue
sandhill crane
sanding machine
sandpaper fig
sandpaper starwort
sandpaper tree
sands of the sea
sands of time
sandwich batten
sandwich beam
sandwich board
sandwich boy
sandwich cake
sandwich coin
sandwich compound
sandwich course
sandwich girder
sandwich man
sandwich shop
sandwich tern
sandy blight
sandy loam
sandy-bearded
sandy-bottomed
sandy-colored
sandy-flaxen
sandy-haired
sandy-pated
sandy-red
sandy-rufous
sane-minded
sang de bouf
sang-de-boeuf
sang-dragon
sang-froid
sanga-sanga
sanguinary ant
sanguine expectation
sanguine humor
sanguine-complexioned
sanitary belt
sanitary cordon
sanitary engineer
sanitary engineering
sanitary napkin
sanitary towel
sanitation-proof
sans appel
sans ceremonie
sans doute
sans facon
sans pareil
sans peur et sans reproche
sans reproche
sans serif
sans souci
sans-culotte
sans-culotterie
sans-culottic
sans-culottid
sans-culottide
sans-culottides
sans-culottish
sans-culottism
sans-culottist
sans-culottize
sans-serif
sant tree
santa claus
santa gertrudis
santal oil
santalwood oil
sanwa millet
sap cavity
sap chafer
sap fagot
sap flow
sap green
sap gum
sap pine
sap roller
sap rot
sap shield
sap stain
sap the foundations
sap the foundations of
sap the strength of
sap tree
sap tube
sap-green
sap-wood
sapele mahogany
saphenous vein
sapling cup
sapodilla family
sapodilla plum
saponification number
saponification value
sapota gum
sapper and miner
sapphire blue
sapphire-blue
sapphire-colored
sapphire-hued
sapphire-visaged
sappy spot
sapr-
sapro-
sapta-matri
sapucaia nut
sapucaia-nut family
sapwood rot
saratoga trunk
sarc-
sarco-
sarcoptic mange
sardine box
sardine can
sardine factory
sardine fishery
sardine oil
sardine shears
sardine tongs
sardonic grin
sargasso weed
sargassum crab
sargassum fish
sargassum pipefish
sargassum shell
sarsen stone
saru-gaku
sarus crane
sash bar
sash chain
sash cord
sash curtain
sash fast
sash fillister
sash holder
sash house
sash line
sash lock
sash maker
sash making
sash plane
sash pocket
sash ribbon
sash saw
sash ventilation
sash weight
sash window
sash-window
sashay along
sashay off
sassa gum
sassafras laurel
sassafras medulla
sassafras nut
sassafras oil
sassafras pith
sassafras tea
sassy bark
satan monkey
satanic cunning
satchel charge
satellite DNA
satellite relay
satellite sphinx
satellite status
satem language
satin bird
satin bowerbird
satin cloth
satin glass
satin grass
satin moth
satin sheeting
satin spar
satin sparrow
satin stitch
satin stone
satin sultan
satin walnut
satin weave
satin white
satin-backed
satin-faced
satin-finished
satin-flower
satin-leaved
satin-lidded
satin-lined
satin-shining
satin-smooth
satin-striped
satin-worked
satiric humor
satiric wit
satirical novel
satirical poetry
satisfaction piece
satisfactory amount
satisfy requirements
satisfy your obligations
satisfy yourself
satisfy yourself on that point
saturated fat
saturated liquid
saturated vapor
saturating oil
saturation bombing
saturation current
savageeatured
savage-fierce
savage-hearted
savage-looking
savage-spoken
savage-wild
savanilla rhatany
savanna blackbird
savanna flower
savanna forest
savanna sparrow
savanna wattle
savanna woodland
savate expert
save and except
save as you earn
save face
save for a rainy day
save the necessity
save to fall back on
save to fall back upon
save up
save your bacon
save your breath
save your face
save your neck
save your skin
save yourself
save-all
saved by the bell
saved soul
savin oil
savin-leaved
saving clause
saving grace
saving your reverence
savings account
savings and loan association
savings bank
savings bank life insurance
savings bond
savings insurance
savings stamp
savoir faire
savoir vivre
savoir-faire
savoir-vivre
savor of
savor of wit
savoring of
savory-leaved
savory-leaved aster
savoy cabbage
saw arbor
saw bearing
saw bench
saw bill
saw bit
saw blade
saw brier
saw cabbage palm
saw carriage
saw clamp
saw cut
saw driver
saw fern
saw file
saw file temper
saw filer
saw filing
saw gate
saw gin
saw grass
saw grinder
saw guard
saw guide
saw handle
saw jointer
saw kerf
saw knife
saw log
saw logs
saw machine
saw machinery
saw maker
saw palmetto
saw palmetto berry
saw pit
saw set
saw setting
saw shark
saw sharpener
saw steel
saw straightener
saw swage
saw table
saw teeth
saw the air
saw tooth
saw tree
saw vise
saw wedge
saw wood
saw wrack
saw wrest
saw-billed
saw-edged
saw-fly
saw-handled
saw-leaved
saw-pierce
saw-pit
saw-shaped
saw-tooth wave
saw-toothed
saw-whet
saw-whet owl
saw-wort
sawara cypress
sawarra nut
sawbuck table
sawdust trail
sawed-off
sawed-off shotgun
sawing block
sawing stop
sawn-off
sawtooth roof
sawyer beetle
sax-horn
saxe blue
saxicava sand
saxifrage family
saxifrage pink
say 'amen' to
say 'ditto' to
say 'no'
say 'yes' to
say a good word for
say a word to the wise
say again
say amen to
say aside
say aye
say by the way
say cast
say farewell
say good-bye
say goodbye to
say grace
say hello
say in defense
say in reply
say nay
say neither yes nor no
say no
say no to
say nothing
say one's say
say out
say over
say over again
say over and over
say something nice about
say that all is for the best
say the word
say to yourself
say uncle
say what comes uppermost
say what you think
say yes
say your lesson
say your prayers
say your say
say-nothing
say-so
scab mite
scab over
scabbard fish
scabby mouth
scabby-head
scaff net
scaff-raff
scaffold nail
scala cordonata
scala media
scalar field
scalar product
scalar triple product
scald crow
scald' head
scald-fish
scale-up
scaled partridge
scaled quail
scaled-down
scalene triangle
scalenus anterior
scalenus medius
scalenus posterior
scales of justice
scaling circuit
scaling down
scaling ladder
scaling-ladder
scallop budding
scallop-shell
scallop-shell moth
scallop-edged
scalp dance
scalp lock
scalping boots
scalping iron
scalping-knife
scaly anteater
scaly mistletoe
scaly spleenwort
scaly tetter
scaly-bark
scaly-barked
scaly-finned
scaly-leg mite
scaly-stemmed
scaly-winged
scamper off
scan conversion
scan converter
scandal sheet
scandal-bearer
scandal-bearing
scandal-mongering
scandalous rumor
scandalum magnatum
scanning beam
scanning disk
scanning electron microscope
scanning line
scanning pattern
scanning speech
scansion barbet
scant of
scant sufficiency
scantling number
scantling-draft vessel
scap net
scape grace
scape wheel
scape-bearing
scapho-
scapolite group
scapolite-gabbro
scapular medal
scapular-shaped
scapulo-
scar end
scar tissue
scar-bearer
scar-bearing
scar-clad
scar-faced
scar-seamed
scarab beetle
scarb-tree
scarce as hen's teeth
scarce-closed
scarce-cold
scarce-covered
scarce-discerned
scarce-found
scarce-heard
scarce-met
scarce-moving
scarce-parted
scarce-seen
scarce-told
scarce Warned
scarce any
scarce anything
scarce ever
scarce heard
scarce like
scarce to be anticipated
scarce to be expected
scarcer than hen's teeth
scarcey price
scare away
scare bullfinch
scare goose
scare hell out of
scare off
scare one spitless
scare one stiff
scare shitless
scare stiff
scare the life out of
scare the pants off of
scare the shit out of
scare to death
scare up
scare-bear
scare-beggar
scare-bird
scare-devil
scare-fire
scare-fish
scare-fly
scare-hawk
scare-hog
scare-mouse
scare-peddler
scare-robin
scare-sheep
scare-sinner
scare-sleep
scare-thief
scare-vermin
scared rabbit
scared shitless
scared stiff
scared to death
scaredy-cat
scarf cloud
scarf joint
scarf maker
scarf making
scarf weld
scarf-skin
scarfed joint
scaring off
scarlet bugler
scarlet clematis
scarlet eggplant
scarlet fever
scarlet hat
scarlet larkspur
scarlet letter
scatter-brain
scatter-brained
scatter-gun
scaup duck
scaup-duck
scavenger beetle
scavenger hunt
scavenger's daughter
scenario writer
scene cloth
scene dock
scene master
scene of action
scene pack
scene painter
scene painting
scene plot
scene-stealer
scenery wagon
scenic artist
scenic railway
scenic view
scent article
scent bag
scent ball
scent bottle
scent box
scent from afar
scent gland
scent out
scent scale
scented fern
scented grass
scented oak fern
scented tea
scented verbena
scentless camomile
schappe silk
schedule of operation
schedule rate
scheduled airline
scheduled castes
scheduled territories
scheme arch
scheme of arrangement
scheme out
schenk beer
schick test
schiller spar
schist oil
schistosome dermatitis
schiz-
schizo-
schizoid personality
schizothymic personality
schlieren effect
schlieren method
schlieren photography
schlock house
schlock rock
schlock shop
schmidt system
schola cantorum
scholae cantorum
scholarly edition
scholastic institution
scholastic theology
school account
school age
school agent
school airship
school aptitude
school argument
school author
school badge
school bass
school bell
school bench
school board
school brush
school building
school bus
school case
school chalk
school chapel
school chart
school child
school clam
school clamp
school clerk
school clock
school commissioner
school committee
school companion
school crayon
school day
school desk
school dictionary
school district
school divine
school divinity
school doctor
school door
school drilling
school edition
school emblem
school equipment
school ethics
school exercise
school fee
school for the handicapped
school friendship
school furniture
school garden
school globe
school grade
school grammar
school hour
school inspector
school kid
school lad
school land
school language
school library
school life
school locker
school logic
school manager
school manner
school map
school matter
school medicine
school model
school moralist
school morality
school name
school nurse
school of architecture
school of art
school of arts and crafts
school of communications
school of continuing education
school of design
school of drama
school of dramatic arts
school of education
school of fine arts
school of graphic arts
school of philosophy
school of the performing arts
school of thought
school officer
school omnibus
school opinion
school organ
school pad
school paper
school pedantry
school pence
school philosopher
school philosophy
school phrase
school playground
school porter
school prank
school principal
school prize
school publication
school publisher
school question
school quiddity
school railing
school ranking
school rating
school register
school ring
school roof
school rule
school savings bank
school scale
school schnapper
school scissors
school seat
school seating
school section
school shark
school ship
school sign
school signal
school slate
school snapper
school strap
science in the flesh
science of being
science of discursive thought
science of human behavior
science of language
science of man
science of mind
science of the mind
science of war
science-fiction novel
scientia est potentia
scientia scientiarum
scientific education
scientific exactness
scientific humanism
scientific management
scientific method
scientific name
scientific socialism
scientifically exact
scimitar foot
scimitar-shaped
scintillation counter
scintillation spectrometer
scire facias
scissor blade
scissor case
scissor chain
scissor kick
scissor maker
scissor making
scissor screw
scissor sharpener
scissor tooth
scissor-fashion
scissor-grinder
scissor-legs
scissor-tailed
scissor-winged
scissors blade
scissors case
scissors chain
scissors chair
scissors fault
scissors hardener
scissors kick
scissors maker
scissors making
scissors pipe
scissors sharpener
scissors truss
scissors worker
scissors-fashion
scissors-grinder
scissors-shaped
scissors-smith
scler-
sclero-
sclero-oophoritis
sclero-optic
sclerosing inflammation
sclerotium disease
scoff at
scoinson arch
scold's bridle
scolding bridle
scolding stool
scolding winds
sconcheon arch
scone cap
scoop bonnet
scoop driver
scoop neck
scoop neckline
scoop net
scoop out
scoop seat
scoop shovel
scoop the market
scoop wheel
scoop, the
scoop-net
scope of mind
scope of vision
scopol-
scops owl
scorched earth
scorched earth policy
scorched-earth tactics
scorching hot
score a breakthrough
score a bull's eye
score a success
score card
score off
score playing
score sheet
score up
scorn to accept
scorn to receive
scornful laugh
scornful smile
scorpion broom
scorpion bug
scorpion fish
scorpion fly
scorpion grass
scorpion iris
scorpion lobster
scorpion mouse
scorpion oil
scorpion plant
scorpion senna
scorpion shell
scorpion spider
scorpion thorn
scot and lot
scot-free
scotch broth
scotch cap
scotch roman
scotch terrier
scotch verdict
scotch whisky
scotch woodcock
scotch your wheel
scotch-hopper
scotch-irish
scotch-tape
scotch-taped
scotch-taping
scotland yard
scoto-
scottish gaelic
scottish rite
scottish terrier
scour out
scour the country
scourge top
scouring ball
scouring barrel
scouring cinder
scouring out
scouring pad
scouring rush
scouring stock
scout around
scout at
scout badge
scout boat
scout camp
scout car
scout commissioner
scout cruiser
scout executive
scout law
scout motto
scout oath
scout out
scout patrol
scout plane
scout salute
scout ship
scout sign
scout staff
scout training
scout vessel
scouting plane
scove kiln
scr-
scrabble up
scrabble your way up
scrag end
scrag whale
scram hand
scram-handed
scramble for
scramble up
scrambled eggs
scrap basket
scrap box
scrap heap
scrap iron
scrap log
scrap paper
scrap pudding
scrap rubber
scrap the plan
scrap value
scrap-book
scrap-heap
scrape acquaintance with
scrape along
scrape and save
scrape in
scrape into
scrape off
scrape out
scrape through
scrape together
scrape togetherno up
scrape up
scrape-finished
scrape-gut
scrape-shoe
scrape-trencher
scraper conveyer
scraper mat
scraper plane
scraper ring
scrappy con
scratch awl
scratch brusher
scratch carving
scratch coat
scratch comma
scratch cradle
scratch division
scratch each other's back
scratch feed
scratch figure
scratch gauge
scratch grass
scratch hit
scratch line
scratch out
scratch pad
scratch paper
scratch player
scratch sheet
scratch test
scratch the surface
scratch togetherno up
scratch wig
scratch-brush
scratch-coated
scratch-pad
scratch-penny
scratching post
scratching shed
scream defiance
scream therapy
screaming color
screaming meemies, the
screaming-meeemies
screech hawk
screech martin
screech owl
screech-owl
screen boy
screen door
screen facade
screen gate
screen grid
screen maker
screen making
screen memory
screen out
screen pass
screen plate
screen process
screen test
screen, the
screen-faced
screen-grid tube
screen-grid voltage
screen-plate process
screen-test
screen-wall counter
screen-wiper
screening constant
screening effect
screw alley
screw anchor
screw arbor
screw around
screw auger
screw axis
screw back
screw bean
screw bell
screw blower
screw bolt
screw box
screw bunter
screw cap
screw chain
screw collar
screw conveyer
screw conveyor
screw coupling
screw driver
screw eye
screw fern
screw gear
screw gearing
screw hook
screw jack
screw joint
screw key
screw machine
screw machinery
screw maker
screw making
screw mill
screw mooring
screw mouth
screw nail
screw nut
screw palm
screw peg
screw pile
screw piling
screw pine
screw plate
screw plug
screw pod
screw post
screw press
screw propeller
screw pump
screw punch
screw rivet
screw shell
screw shot
screw smile
screw spanner
screw spike
screw stair
screw stake
screw stay
screw steamer
screw stock
screw stone
screw stud
screw surface
screw tap
screw thread
screw tool
screw tree
screw up
screw up the eyes
screw up the works
screw up your courage
screw up your face
screw up your nerve
screw wedge
screw wheel
screw wrench
screw-back
screw-bound
screw-capped
screw-chasing
screw-clamped
screw-cutting
screw-cutting lathe
screw-down
screw-driven
screw-eyed
screw-geread
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
screw-propelled
screw-shaped
screw-slotting
screw-stoppered
screw-thread fit
screw-thread tolerance
screw-threaded
screw-topped
screw-torn
screw-turned
screw-turning
screw-up
screwed up
screwed-up
screwing around
screwing machine
scribble-scrabble
scribbling block
scribbling lark
scribe saw
scribes and Pharisees
scribering block
scribering compass
scribering gouge
scribering iron
scribering board
scribering line
scrip rail
scribering bar
scriber certificate
scriber dividend
scriber issue
scriber scrap
scriber girl
scriber lichen
scriber reader
scriber writer
scriber owl
scriber scratch
scriber-scratching
scriber board
scriber lichen plant
scriber line
scriber casing
scriber chuck
scriber creeper
scriber foot
scriber front
scriber gear
scriber lathe
scriber pediment
scriber saw
scriber step
scriber wheel
scriber-cut
scriber-like
scriber-shaped
scriber down
crowch down
crowch down
crowge around
scrub birch
scrub bird
scrub brush
scrub bush
scrub chestnut oak
scrub fowl
scrub hickory
scrub juniper
scrub myrtle
scrub nurse
scrub oak
scrub out
scrub pine
scrub pine
scrub plane
scrub robin
scrub round
scrub sandalwood
scrub shrub
scrub turkey
scrub typhus
scrub up
scrub vine
scrub wren
scrub-bird
scrub-up
scrubbing board
scrubbing brush
scrubbing out
scrubbing up
scrubbing-brush
scrum half
scrutinize comparatively
scrutiny-proof
scuba diver
scuba diving
scuff plate
scuffle hoe
scullery maid
sculling oar
sculpting tool
sculptor's wax
sculptured glass
sculptured piece
scum of society
scum of the earth
scupper pipe
scupper shoot
scurvy grass
scurvy trick
scut work
scutch cane
scutch grass
scutching tow
scutellum rot
scuttle butt
scyphi-
scypho-
scythe maker
scythe making
scythe of Death
scythe of Time
scythe-armed
scythe-bearing
scythe-leaved
scythe-shaped
se defendendo
se tenant
se-
se-baptism
se-baptist
sea acorn
sea adder
sea air
sea anchor
sea anemone
sea anemones
sea ape
sea apple
sea apron
sea arrow grass
sea ash
sea aster
sea bag
sea bank
sea basket
sea bass
sea bat
sea bean
sea bear
sea beef
sea beet
sea bells
sea belt
sea bent
sea bindweed
sea bird
sea biscuit
sea bladder
sea colewort
sea combat
sea compass
sea connection
sea coot
sea corn
sea cow
sea cradle
sea crawfish
sea crayfish
sea creature
sea cress
sea crow
sea cucumber
sea cudweed
sea cushion
sea daffodil
sea dahlia
sea daisy
sea date
sea day
sea devil
sea dock
sea dog
sea dotterel
sea dove
sea dragon
sea drake
sea duck
sea dust
sea duty
sea eagle
sea ear
sea eel
sea egg
sea elephant
sea endive
sea fan
sea feather
sea fee
sea fennel
sea fern
sea fig
sea fight
sea fir
sea fire
sea fish
sea fisher
sea fisherman
sea fishery
sea fishing
sea flea
sea foalfoot
sea foam
sea fog
sea food
sea fox
sea fret
sea front
sea frontage
sea froth
sea furbelow
sea gasket
sea gate
sea gauge
sea gillyflower
sea girdle
sea god
sea gods
sea goose
sea gooseberry
sea goosefoot
sea gown
sea grape
sea grass
sea grass wrack
sea green
sea gromwell
sea gudgeon
sea gull
sea gypsy
sea hanger
sea hare
sea hawk
sea hay
sea heath
sea hedgehog
sea hen
sea herdsman
sea herring
sea hog
sea holly
sea hollyhock
sea holm
sea horse
sea hulver
sea ice
sea island
sea island cotton
sea kale
sea kelps
sea kidney
sea king
sea kittie
sea lace
sea ladder
sea lamprey
sea lane
sea language
sea lark
sea laurel
sea lavender
sea law
sea lawyer
sea league
sea leather
sea legs
sea lemon
sea lentil
sea leopard
sea letter
sea lettuce
sea level
sea light
sea lily
sea line
sea lion
sea lizard
sea loach
sea louse
sea lovage
sea luce
sea lungs
sea lungwort
sea lyme grass
sea magpie
sea mail
sea mallow
sea mantis
sea margin
sea marigold
sea mat
sea matweed
sea meadow
sea perils
sea pheasant
sea pie
sea piet
sea pig
sea pigeon
sea pike
sea pimpernel
sea pincushion
sea pine
sea pink
sea plain
sea plantain
sea plume
sea poacher
sea poker
sea poppy
sea porcupine
sea post
sea post office
sea potato
sea power
sea preacher
sea pumpkin
sea purse
sea purslane
sea puss
sea quail
sea radish
sea ragweed
sea ragwort
sea ranger
sea rat
sea raven
sea reach
sea reed
sea rim
sea risk
sea risks
sea road
sea robber
sea robin
sea rocket
sea rod
sea room
sea rosemary
sea rover
sea ruffle
sea salmon
sea salt
sea sand
sea sand grass
sea sand reed
sea sandpiper
sea sands
sea sandwort
sea scallop
sea scorpion
sea scout
sea scouting
sea sedge
sea serpent
sea service
sea shell
sea shrub
sea silk
sea sled
sea slope
sea slug
sea smoke
sea snail
sea snake
sea snipe
sea soldier
sea soldiers
sea spear grass
sea spider
sea spirit
sea spleenwort
sea squill
sea squirt
sea stack
sea staff
sea staghorn
sea star
sea starwort
sea steps
sea stickleback
sea stores
sea sulphurweed
sea surgeon
sea swallow
sea swine
sea tangle
sea term
sea thief
sea thong
sea thrift
sea time
sea titling
sea toad
sea tortoise
sea town
sea train
sea travel
sea tree
sea trip
sea trout
sea trumpet
sea turn
sea turnip
sea turtle
sea twine
sea unicorn
sea urchin
sea valve
sea vampire
sea wall
sea walnut
sea wand
sea warfare
sea water
sea wax
sea wheat
sea whip
sea whicipcord
sea whiplash
sea whistle
sea widgeon
sea willow
sea withwind
sea wolf
sea woodcock
sea worm
sea wormwood
sea wrack
sea-bank
sea-bathed
sea-bean
sea-beast
sea-beat
sea-beaten
sea-bird
sea-boat
sea-born
sea-borne
sea-bounded
sea-bounding
sea-bred
sea-breeze
sea-broke
sea-built
sea-calf
sea-captain
sea-card
sea-circled
sea-cliff
sea-coal
sea-coast
sea-cock
sea-compelling
sea-convulsing
sea-cow
sea-cut
sea-deep
sea-deserted
sea-devil
sea-divided
sea-dog
sea-dragon
sea-driven
sea-eagle
sea-ear
sea-elephant
sea-encircled
sea-faring
sea-fern
sea-fight
sea-fighter
sea-fish
sea-flower
sea-foam
sea-food
sea-form
sea-fowl
sea-framing
sea-front
sea-gait
sea-gate
sea-girt
sea-god
sea-goddess
sea-purse
sea-quake
sea-racing
sea-raven
sea-robin
sea-room
sea-rounded
sea-rover
sea-roving
sea-run
sea-running
sea-sailing
sea-salt
sea-sand
sea-saw
sea-scape
sea-scented
sea-scourged
sea-serpent
sea-service
sea-shell
sea-shore
sea-shouldering
sea-sick
sea-side
sea-slug
sea-snail
sea-snake
sea-snipe
sea-spider
sea-star
sea-surrounded
sea-swallow
sea-swallowed
sea-torn
sea-tossed
sea-tost
sea-traveling
sea-trout
sea-urchin
sea-wall
sea-walled
sea-wandering
sea-ware
sea-washed
sea-water
sea-water green
sea-way
sea-weary
sea-wide
sea-wilderened
sea-wolf
sea-wrack
sea-wrecked
seabeach morning-glory
seabeach sandwort
seacoast angelica
seacoast laburnum
seafaring man
seakale beet
seal brown
seal character
seal coat
seal cutter
seal cutting
seal cylinder
seal fisher
seal fisherman
seal fishery
seal fishing
seal hole
seal lock
seal maker
seal making
seal of approval
seal of confession
seal of secrecy
seal off
seal oil
seal point
seal press
seal ring
seal the doom of
seal up
seal your infamy
seal your lips
seal-brown
seal-point
sealed book
sealed move
sealed off
sealed orders
sealed-beam
sealing hole
sealing nut
sealing off
sealing tape
sealing wax
sealing-wax
sealyham terrier
seam blasting
seam face
seam lace
seam presser
seam roller
seam set
seam stitch
seam strip
seam weld
seam welding
seam-rent
seam-ripped
seam-ript
seaman apprentice
seaman branch
seaman gunner
seaman recruit
seaming dies
seaming lace
seamless stockings
seamy-sided
seaplane carrier
sear pin
search coil
search ephemeris
search for
search high heaven
search into
search lamp
search me
search mission
search out
search party
search plane
search radar
search room
search thoroughly
search through
search warrant
search your motives
search your soul
search-and-destroy mission
search-and-destroy operation
searching investigation
searchlight lantern
seared conscience
seashell pink
seashore heliotrope
seashore pea
seaside alder
seaside arrowgrass
seaside aster
seaside balsam
seaside bean
seaside bent
seaside brome grass
seaside crowfoot
seaside daisy
seaside finch
seaside gerardia
seaside goldenrod
seaside grape
seaside heliotrope
seaside knotweed
seaside laurel
seaside millet
seaside morning-glory
seaside oat
seaside oxeye
seaside painted-cup
seaside pea
seaside pimpernel
seaside pine
seaside plantain
seaside plantain
seaside plum
seaside poppy
seaside radish
seaside sandwort
seaside sparrow
seaside spurge
season check
season crack
season of the year
season ticket
seasonal unemployment
seasoned hand
seasoned professional
seasoned salt
seasoned stock
seasoned understanding
seasoned veteran
seat angle
seat arm
seat back
seat bath
seat belt
seat board
seat bone
seat clip
seat cover
seat coverer
seat cushion
seat designer
seat maker
seat making
seat of affections
seat of authority
seat of government
seat of justice
seat of life
seat of power
seat of state
seat of thought
seat of war
seat owner
seat worm
seat yourself
seat-mile
seaweed fern
seaweed glue
seaweed green
seaweed isinglass
seaweed marquetry
sebaceous cyst
sebaceous gland
sebaceous glands
sebacic acid
sebi-
seborrheic dermatitis
secale cornutum
seclude yourself
seclusive personality
secobarbital sodium
second axiom of countability
second ballot
second banana
second base
second baseman
second best
second birth
second blessing
second carbon
second category
second chamber
second childhood
second class
second coming
second cousin
second crop
second derivative
second detector
second draft
second edition
second empire
second estate
second fiddle
second floor
second growth
second hand
second helping
second in command
second intention
second job
second law of motion
second law of thermodynamics
second lieutenant
second line of defense
second look
second man
second mate
second mortgage
second mortgage bond
second nature
second officer
second paper
second papers
second person
second philosophy
second position
second prize
second rank
second reader
second reading
second self
second sex
second sight
second stomach
second story
second string
second stringer
second team
second thought
second thoughts
second to none
second wind
second youth
second-best
second-class
second-class mail
second-cut
second-cut file
second-degree
second-degree burn
second-drawer
second-feet
second-first
second-floor
second-foot
second-growth
second-guess
second-guesser
second-hand
second-handedness
second-in-command
second-line battleship
second-line destroyer
second-order reaction
second-rate
second-rateness
second-rater
second-sighted
second-sightedness
second-story
second-story man
second-story thief
second-story work
second-story worker
second-touch
secondary accent
secondary articulation
secondary battery
secondary burial
secondary cell
secondary color
secondary colour
secondary con
secret heart
secret ink
secret language
secret nailing
secret name
secret order
secret partner
secret passage
secret place
secret places
secret police
secret recesses of the heart
secret service
secret society
secret staircase
secret thoughts
secret writing
secret-false
secret-service
secretarial school
secretaries-general
secretary bird
secretary bookcase
secretary of legation
secretary of state
secretary-general
secretary-treasurer
secreto-inhibitory
section bar
section boss
section crew
section cutter
section eight
section gang
section hand
section line
section man
section mark
section mill
section modulus
section paper
section plane
sector disk
sector gear
sector wheel
secular canoness
secular humanism
secular humanist
see as it really is
see at a glance
see badly
see beforehand
see both sides
see both sides of the question
see but one side of the question
see combat
see daylight
see double
see eye to eye
see fit
see how the cat jumps
see how the cookie crumbles
see how the land lies
see how the wind blows
see if one can do
see in a special light
see in its true colors
see in one's mind
see in perspective
see in retrospect
see in the crystal ball
see into
see it out
see it through
see justice done
see life
see nothing
see nuances of difference
see of
see off
see only the good points of
see out
see over
see poorly
see red
see shades of difference
see that
see the cloven hoof
see the difference
see the future
see the inside of
see the light
see the light of day
see the lions
see the sights
see the special circumstances
see through
see through a glass
see through rose-colored glasses
see through the press
see to
see to it
see to the bottom of
see visions and dream dreams
see what can be done
see what you can do
see which way the cat jumps
see which way the land lies
see which way the wind blows
see with half an eye
see with your own eyes
see you
see you alone
see you later
see you redressed
see you righted
see you through
see your way
see your way clear
see-bright
see-er
see-ho
see-through
seed ball
seed beetle
seed capsule
seed coat
seed coral
seed corn
seed cotton
seed crown
seed down
seed feed cup
seed fern
seed fish
seed hair
seed leaf
seed mesquite
seed money
seed oil cake
seed oyster
seed pearl
seed plant
seed planter
seed plants
seed plat
seed plate
seed plot
seed plow
seed pod
seed potato
seed screener
seed snipe
seed stitch
seed stock
seed tick
seed treatment
seed tree
seed vessel
seed weevil
seed-cake
seed-corn
seed-corn maggot
seed-eating bird
seed-lac
seed-lip
seed-pearl
seed-snipe
seed-time
seed plow
seedtime of life
seeing as how
seeing distinctions
seeing double
seeing eye
seeing glass
seeing that
seek for
seek gapeseed
seek in law
seek justice
seek legal redress
seek out
seek peace
seek refuge
seek the company of
seek to
seek-sorrow
seem like
seem likely
seem to be
seem true
seenie bean
seep in
seer-fish
segment gear
segment rack
segmental arch
segmental phoneme
segmental saw
segmentation cavity
segmentation nucleus
segmentation sphere
sego lily
sei whale
seidlitz powders
seif dune
seine gang
seir-fish
seis-ing
seismic wave
seismo-
seize on
seize one of the facts
seize power
seize quartiers
seize the crown
seize the day
seize the mantle
seize the meaning
seize the mind
seize the present hour
seize the throne
seize upon
seize your mind
seized of
seized with
seizing stuff
seizing truck
seizure of power
sejant-erect
sejeant-erect
sel- dom
seldom ever
seldom if ever
seldom met with
seldom seen
select committee
selected passage
selected short subject
self-absorption
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self-fulfilment
self-furnished
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dam
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loathing
locating
locking
lost
love
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lubrication
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maceration
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making
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mastery
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self-suppressing
self-suppression
self-suppressive
self-sure
self-surrender
self-surrendering
self-survey
self-surveyed
self-surviving
self-survivor
self-suspended
self-suspicion
self-suspicious
self-sustained
self-sustaining
self-sustainingly
self-sustainment
self-sustenance
self-sustentation
self-sway
self-tapping
self-tapping screw
self-taught
self-taught man
self-taught person
self-taxation
self-taxed
self-teacher
self-teaching
self-tempted
self-tenderness
self-terminating
self-terminative
self-testing
self-thinking
self-thinning
self-thought
self-threading
self-tightening
self-timer
self-tipping
self-tire
self-tired
self-tiring
self-tolerant
self-tolerantly
self-toning
self-tortment
self-tortmented
self-tormenter
self-tormenting
self-tormently
self-tormentor
self-torture
self-tortured
self-torturing
self-trained
self-training
self-transformation
self-transformed
self-treated
self-treatment
self-trial
self-triturating
self-troubled
self-troubling
self-trust
self-trusting
self-tuition
self-uncertain
self-unconscious
self-understand
self-understanding
self-understood
self-undoing
self-unfruitful
self-uniform
self-union
self-unity
self-unloader
self-unloading
self-unscabbarded
self-unveiling
self-unworthiness
self-upbraiding
self-usurp
self-validating
self-valuation
self-valued
self-valuing
self-variance
self-variation
self-varying
self-vaunted
self-vaulting
self-vendition
self-ventilated
self-vexation
self-view
self-vindicated
self-vindicating
self-vindication
self-violence
self-violent
self-vivacious
self-vivisector
self-vulcanizing
self-want
self-wardness
self-warranting
self-watchfulness
self-weariness
self-weary
self-weight
self-weighted
self-whipper
self-whipping
sell short
sell stocks
sell to the highest bidder
sell under the counter
sell up
sell wholesale
sell you a bill of goods
sell your life dearly
sell yourself
sell-off
sellenger's round
seller four
seller's market
sellers' market
selling account
selling agent
selling point
selling price
selling race
selling-plater
seltzer water
semantic cluster
semantic field
semantic history
semantic tone
semantic unit
semaphore flag
semaphore plant
semaphore telegraph
semasiological unit
semei-
semen cinae
semen contra
semester hour
semi-
semi-Augustinianism
semi-abstract
semi-abstraction
semi-annual
semi-arian
semi-aridity
semi-armor-piercing
semi-chorus
semi-circle
semi-cubical
semi-demi-
semi-detached
semi-diesel
semi-diurnal
semi-double
semi-form
semi-idiocy
semi-idiotic
semi-idleness
semi-ignorance
semi-illiteracy
semi-illiterate
semi-illiterately
semi-illiterateness
semi-illuminated
semi-immbricated
semi-immersed
semi-impressionistic
semi-incandescent
semi-independence
semi-independent
semi-independently
semi-indirect
semi-indirectly
semi-indirectness
semi-inductive
semi-indurate
semi-indurated
semi-industrial
semi-industrialized
semi-industrially
semi-inertness
semi-infidel
semi-infinite
semi-inhibited
semi-inhibition
semi-insoluble
semi-instinctive
semi-instinctively
semi-instinctiveness
semi-insular
semi-intellectual
semi-intellectualized
semi-intellectually
semi-intelligent
semi-intelligently
semi-intercostal
semi-internal
semi-internalized
semi-internally
semi-interosseous
semi-intoxication
semi-intrados
semi-invalid
semi-inverse
semi-ironic
semi-ironical
semi-ironically
semi-isolated
semi-learning
semi-lune
semi-mat
semi-matte
semi-metal
semi-nocturnal
semi-opal
semi-ped
semi-pelagian
semi-private room
semi-saxon
semi-unabridged dictionary
semi-uncial
semiRussian
semiair-cooled
semiautomatic control
semiautomatic rifle
semibreve rest
semicircular canal
semicircular canals
semiclassical music
semico-operative
semicolon butterfly
semiconductor circuit
semiconductor device
semiconductor physics
semidrying oil
semilatus rectum
semilunar valve
semimajor axis
semiminor axis
seminal duct
seminal fluid
seminal imagination
seminal principle
semiotic unit
semipalmated plover
semipalmated sandpiper
semiprecious stone
semirigid airship
semisimple algebra
semicircle gas
semor sem
semper eadem
semper et ubique
semper fidelis
semper idem
semper paratus
semper-
sen robber
senate house
senate-house
senator-elect
senatorial courtesy
senatorial district
senatus consult
senatus consultum
send a letter to
send a note
send a statement
send a wire
send about your business
send abroad
send after
send away
send back
send down
send flying
send for
send forth
send headlong
send in
send in your papers
send mad
send off
send on a fool's errand
send on a mission
send out
send out of your mind
send out rays
send packing
send round
send scuttling
send sprawling
send to Coventry
send to Davy Jones's locker
send to glory
send to hell
send to jail
send to kingdom come
send to school
send to sleep
send to the bottom
send to the gas chamber
send to the right-about
send to the showers
send to your last account
send up
send up a prayer
send up a trial balloon
send up the river
send word
send you spinning
send your compliments
send your condolences
send your regards
send-off
send-out
sending abroad
sending back
sending set
sending station
sending to Coventry
seneca oil
seneca snakeroot
senega root
senega snakeroot
seneka root
seneka snakeroot
sengreen saxifrage
senile debility
senile dementia
senile psychosis
senile weakness
senility necrosis
senior checker
senior chief petty officer
senior citizen
senior citizenship
senior common room
senior high
senior high school
senior master sergeant
senior officer
senior securities
seniority rule
senna family
senna tree
sensation level
sensation-proof
sensational play
sense datum
sense faculty
sense finder
sense form
sense group
sense impression
sense of duty
sense of hearing
sense of humor
sense of humour
sense of indebtedness
sense of language
sense of mystery
sense of obligation
sense of relief
sense of rhythm
sense of right and wrong
sense of sight
sense of smell
sense of taste
sense of the meeting
sense of touch
sense of wonder
sense organ
sense perception
sense pleasure
sense stress
sense survival
sense-bereaving
sense-bound
sense-confounding
sense-confusing
sense-data
sense-datum
sense-distracted
sense-ravishing
sensible note
sensible of
sensible price
sensible to
sensible sensible horizon
sensitive area
sensitive ear
sensitive fern
sensitive heart
sensitive plant
sensitive to
sensitivity to
sensitivity training
sensitizing antibody
sensitol green
sensitometric curve
sensori-
sensory aid
sensory area
sensory awareness training
sensory cell
sensory deprivation
sensory epilepsy
sensory experience
sensory neuron
sensory organ
sensory paralysis
sensory pattern
sensual pleasure
sensum theory
sensuous desire
sensuous pleasure
sensus communis
sentence accent
sentence adverb
sentence balance
sentence building
sentence connector
sentence fragment
sentence making
sentence method
sentence modifier
sentence monger
sentence of death
sentence pattern
sentence stress
sentence structure
sentence substitute
sentence tone
sentential calculus
sentential connective
sentential function
sententious expression
sententious saying
sentiment-proof
sentimental comedy
sentimental novel
sentimental value
sentinel crab
sentry board
sentry box
sentry go
sentry-box
sentry-fashion
sentry-go
separate forcibly
separate from the service
separate identity
separate involuntarily
separate maintenance
separate out
separate person
separate returns
separate school
separate the men from the boys
separate yourself
separated brother
separating funnel
separating power
separation allowance
separation center
separation energy
separation from the service
separation layer
separation negative
separation of attention
separation of powers
separation theorem
separatory funnel
sepia paper
sepia-colored
sepia-eyed
sepia-tinted
seppa dai
sept chord
septal cartilage
septal neck
septem-
septi-
septic poisoning
septic sore throat
septic tank
septicemic plag
septicemic plague
septifragal dehiscence
septo-
septuple time
sequence flasher
sequence flashers
sequence of ideas
sequence of phonemes
sequence of tenses
sequence of thought
sequence switch
sequential access
sequential system
sequentially compact set
sequester yourself
sequoia pitch moth
serbo-
serbo-croatian
sergeant armorer
sergeant at arms
sergeant at law
sergeant bugler
sergeant clerk
sergeant cook
sergeant drummer
sergeant first class
sergeant fish
sergeant footman
sergeant instructor
sergeant major
sergeant painter
sergeant porter
sergeant saddler
sergeant schoolmaster
sergeant tailor
sergeant trumpet
sergeant trumpeter
sergeant-at-arms
sergeant-at-law
sergeant-major
sergeant-majorship
sergeants major
serial bond
serial correlation
serial epilepsy
serial number
serial operation
serial order
serial polygamy
serial right
serial technique
sericin gum
sericite gneiss
sericite schist
series dynamo
series motor
series multiple
series parallel
series resonance
series spectra
series turn
series winding
series-wound
serin finch
serio-
serio-comic
serious drinker
serious drinking
serious literature
serious music
serious operation
serious-minded
serious-mindedly
serious-mindedness
serjeant at arms
serjeant at law
serjeant-at-law
sermon bell
sermon on the mount
sero-
seroplastic inflammation
serous fluid
serous gland
serous inflammation
serous membrane
serpent cucumber
serpent cult
serpent eagle
serpent eater
serpent fern
serpent fish
serpent gourd
serpent grass
serpent melon
serpent moss
serpent radish
serve-out
service ace
service aircraft
service area
service battery
service book
service box
service brake
service break
service buzzer
service call
service cap
service ceiling
service charge
service clasp
service club
service company
service court
service door
service elevator
service engineer
service entrance
service flag
service flat
service hat
service industry
service line
service magazine
service mark
service medal
service module
service of music
service of song
service pension
service pipe
service plate
service road
service side
service side line
service squadron
service stair
service station
service stripe
service switch
service tree
service troop
service uniform
service wall
servient tenement
servile work
serving cart
serving girl
serving hatch
serving knife
serving mallet
serving man
serving pantry
serving stuff
serving table
servo amplifier
servo brake
servo control
servo engineer
servo engineering
servo instrumentation
servo laboratory
servo regulator
servo system
servo tab
servo valve
servo-
servo-control
servo-controlled
servo-motor
servo-pilot
sesame grass
sesame oil
sesame seeds
sesamoid bones
sesqui-
sesquipedalian word
sessile oak
sessile-eyed
sessile-flowered
sessile-fruit
sessile-leaved
sessional indemnity
set a course
set a limit
set a new mark
set a price on
set a question
set a stopping place
set a task
set a trap for
set a value on
set foot on
dry land
set for
to
set form
set forth
set forward
set free
set function
gauge
set going
gun
hammer
der down
set hook
set hurdles
set in
set in contrast
set in motion
set in opposition
set in order
set in print
set in the tablets of memory
set in towards
set in your ways
set iron
set limits
set little by
set mind
set naught by
set no store by
set nut
set of conditions
set of postulates
set of rooms
teach
set of teeth
set of teeth
set of the current
set of three
set of two
set off
set off against
set off for
set off to advantage
set off to good advantage
set on
set on edge
set on fire
set on foot
set on its base
set on its beam ends
set on its feet
set on its legs
set on your feet
set on your legs
set one back
set one's face against
set out
set out for
set over against
set over against one another
set phrase
set piece
set pin
set point
set pot
set purpose
set right
set sail
set shot
set side by side
set someone on his feet
set speech
set square
set store by
set straight
set task
set temper
set term
set terms
set the Thames on fire
set the brain to work
set the date
set the echoes ringing
set the fashion
set the law at defiance
set the law at naught
set the limit
set the mind to
set the mood
set the pace
set the price tag too high
set the river on fire
set the stage
set the style
set the table on a roar
set the teeth on edge
set the time
set the tone
set the wits to work
set the world on fire
set theory
set to
set to music
set to one side
set to rights
set to sleep
set to the account of
set to work
set toward
set tub
set type
set up
set up for
set up housekeeping
set up in business
set up shop
set upon
set upon on all sides
set width
set with thorns
set your back against the wall
set your cap at
set your cap for
set your compass for
set your course for
set your dignity aside
set your dignity to one side
set your face against
set your foot down
set your foot down on
set your hand and seal
set your hand to
set your heart against
set your heart at rest
set your heart on
set your heart upon
set your house in order
set your jaw
set your mind at ease
set your mind at rest
set your mind upon
set your seal
set your shoulder to the wheel
set your sights on
set your teeth
set your teeth on edge
set your thoughts on
set your wits to work
set yourself against
set-
set-aside
set-back
set-down
set-fair
set-hands
set-in
set-in sleeve
set-off
set-out
set-stitched
set-to
set-up
set-up board
set-upness
seti-
setoff sheet
sett beater
settee bed
settee rig
setter-forth
setter-in
setter-on
setter-out
setter-to
setter-up
setting apart
setting aside
setting at liberty
setting block
setting board
setting circle
setting coat
setting day
setting dog
setting free
setting gauge
setting hen
setting in motion
setting lotion
setting node
setting point
setting pole
setting punch
setting rule
setting stake
setting stick
setting sun
setting-free
setting-out
setting-to
setting-up
setting-up exercise
setting-up exercises
settle a score
settle accounts
settle accounts with
settle at
settle bed
settle differences
settle down
settle for
settle in
settle into
settle it
settle on
settle preliminaries
settle the land
settle the matter
settle the score
settle to rest
settle to sleep
settle upon
settle with
settle your differences
settle your hash
settle your mind
settle- abide
settle-bench
settle-brain
settle-down
settled belief
settled in habit
settled judgment
settled principle
settled production
settled purpose
settled soap
settled upon
settlement day
settlement house
settlement lease
settlement option
settlement sheet
settlement worker
settling clerk
settling day
settling price
seven deadly sins
seven o'clock
seven principles of man
seven sacraments
seven seas
seven sisters
seven sleepers
seven stars
seven year
seven-banded
seven-branched
seven-caped
seven-card stud
seven-channeled
seven-chorded
seven-cornered
seven-day
seven-eleven
seven-eyed
seven-eyes
seven-figure
seven-foot
seven-footer
seven-formed
seven-gated
seven-gilled
seven-hand
seven-headed
seven-hilled
seven-hilly
seven-holes
seven-horned
seven-inch
seven-league
seven-league boots
seven-leaved
seven-line
seven-masted
seven-mouthed
seven-nerved
seven-ounce
seven-part
seven-part time
seven-piled
seven-ply
seven-point
seven-point circle
seven-poled
seven-pronged
seven-quired
seven-sealed
seven-shilling
seven-shooter
seven-sided
seven-sisters
seven-spot
seven-spotted
seven-syllabled
seven-thirties
seven-thirty
seven-thorned
seven-tined
seven-toned
seven-twined
seven-twisted
seven-up
seven-year
seven-year itch
seventeen-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
seventh-day
seventy-day
seventy-dollar
seventy-eight
seventy-eighth
seventy-fifth
seventy-first
seventy-five
seventy-foot
seventy-footer
seventy-four
seventy-fourth
seventy-horse
seventy-mile
seventy-nine
sextuple press
sextuple time
sexual abnormality
sexual abstinence
sexual advance
sexual approach
sexual assault
sexual attraction
sexual attractiveness
sexual climax
sexual commerce
sexual congress
sexual customs
sexual desire
sexual deviance
sexual deviant
sexual deviate
sexual deviation
sexual excitement
sexual freedom
sexual generation
sexual infantilism
sexual innocence
sexual instinct
sexual intercourse
sexual inversion
sexual invitation
sexual longing
sexual love
sexual magnetism
sexual morality
sexual mores
sexual normality
sexual overture
sexual passion
sexual pathology
sexual perversion
sexual pervert
sexual pleasure
sexual possession
sexual power
sexual practices
sexual precocity
sexual preference
sexual psychopath
sexual psychopathy
sexual relations
sexual reproduction
sexual revolution
sexual selection
sexual union
sexual urge
sexually abstinent
sexually excited
sexually innocent
sexy body
sh-sh
shab-rag
shabby-genteel
shabby-gentility
shack bait
shack up
shackle bar
shackle bolt
shackle insulator
shackle joint
shad fly
shad frog
shad scale
shad spirit
shad tree
shad-bellied
shad-belly
shad-blow
shade deck
shade into
shade of difference
shade off
shade pine
shade plant
shade tree
shade-bearing
shade-enduring
shade-giving
shade-grown
shade-loving
shade-seeking
shades and shadows
shades below
shades of death
shading amplifier
shading coil
shadow band
shadow bird
shadow box
shadow cabinet
shadow compass
shadow cone
shadow dance
shadow fight
shadow figure
shadow forth
shadow line
shadow mask
shadow nucleus
shadow of death
shadow of doubt
shadow pantomime
shadow pin
shadow play
shadow show
shadow skirt
shadow stitch
shadow stop
shadow test
shadow-box
shadow-mask kinescope
shadowed forth
shadows numberless
shady dealings
shady reputation
shaft alley
shaft efficiency
shaft eye
shaft feather
shaft furnace
shaft governor
shaft grave
shaft grave tomb
shaft head
shaft horse
shaft horsepower
shaft house
shaft key
shaft sinker
shaft tackle
shaft tug
shaft tunnel
shaft-rubber
shaft-straightener
shaft-foot man
shafting lathe
shag ass
shag rug
shag-haired
shag-rag
shagbark hickory
shaggy cap
shaggy dog story
shaggy-barked
shaggy-bearded
shaggy-bodied
shaggy-coated
shaggy-dog story
shaggy-fleeced
shaggy-footed
shaggy-haired
shaggy-leaved
shaggy-mane
shaggy-mane mushroom
shaggy-maned
shake a leg
shake all over
shake bolt
shake culture
shake down
shake hands
shake hands and kiss babies
shake hands on
shake hands with
shake hands with yourself
shake in your boots
shake in your shoes
shake it up
shake like an aspen leaf
shake like jelly
shake off
shake off the yoke
shake on it
shake the dust from your feet
shake the head
shake the windows
shake up
shake with laughter
shake your faith
shake your fist at
shake your hand
shake your head
shake your head at
shake-bag
shake-cabin
shake-down
shake-hands
shake-out
shake-rag
shake-up
shakebag club
shakebag match
shakedown artist
shakedown cruise
shaken up
shaking of hands
shaking palsy
shaking prairie
shaking pudding
shaking table
shaky health
shalach manosh
shale green
shale naphtha
shale oil
shale spirit
shallot sauce
shallow structure
shallow water
shallow-bottomed
shallow-brained
shallow-draft
shallow-footed
shallow-forded
shallow-headed
shallow-hulled
shallow-minded
shallow-mindedness
shallow-pated
shallow-read
shallow-rooted
shallow-rooting
shallow-sea
shallow-searching
shallow-sighted
shallow-soiled
shallow-thoughted
shallow-toothed
shallow-waisted
shallow-water
shallow-witted
shallow-wittedness
shalom aleichem
shalom alekhem
shalosh seudos
shalosh seudoth
sham object
sham subject
shama millet
shamalo grass
shame brier
shame child
shame vine
shame-burnt
shame-crushed
shame-eaten
shame-shrunk
shame-stricken
shame-swollen
shameless falsehood
shammy leather
shamrock green
shamrock pea
shamrock-pea
shangri-la
shank bone
shank cutter
shank grass
shank mill
shank of the afternoon
shank of the evening
shank painter
shank's mare
shank's pony
shank-painter
shanks' mare
shanks' pony
shanks's pony
shanty boat
shanty boy
shanty-boater
shape a course
shape note
shape out a course
shape shifting
shape target
shape the hair
shape up
shape your course for
shape-knife
shape-shifting
shape-up
shaped charge
shaped note
shaping dies
shaping imagination
shaping planer
shard beetle
shard-born
shard-borne
share and share alike
share around
share beam
share certificate
share crop
share head
share in
share ledger
share out
share premium
share register
share tenant
share with
share your bed and board
share your grief
share your sorrow
share-out
shared pair
sharing of grief
sharing of sorrow
sharing out
shark barrow
shark bell
shark moth
shark net
shark oil
shark patrol
shark pilot
shark ray
shark siren
shark sucker
shark-liver
shark-liver oil
sharkskin pahoehoe
sharp air
sharp as a needle
sharp as a razor
sharp as a tack
sharp as a two-edged sword
sharp as broken glass
sharp cash
sharp cedar
sharp dock
sharp ear
sharp edge
sharp eye
sharp freezing
sharp frost
sharp iron
sharp look
sharp mixture
sharp pain
sharp practice
sharp sand
sharp sight
sharp wind
sharp words
sharp-angled
sharp-ankled
sharp-back
sharp-back shark
sharp-backed
sharp-beaked
sharp-bellied
sharp-billed
sharp-biting
sharp-bottomed
sharp-breasted
sharp-clawed
sharp-cornered
sharp-cut
sharp-cutting
sharp-eared
sharp-edged
sharp-elbowed
sharp-eye
sharp-eyed
sharp-eyes
sharp-faced
sharp-fanged
sharp-featured
sharp-flavored
sharp-freeze
sharp-freezer
sharp-freezing
sharp-froze
sharp-frozen
sharp-fruited
sharp-gritted
sharp-ground
sharp-headed
sharp-heeled
sharp-horned
sharp-keeled
sharp-leaved
sharp-looking
sharp-mined
sharp-nebbled
sharp-nosed
sharp-nosed shark
sharp-nosedly
sharp-nosedness
sharp-odored
sharp-petaled
sharp-piercing
sharp-piled
sharp-pointed
sharp-quilled
sharp-ridged
sharp-set
sharp-setness
sharp-shinned
sharp-shinned hawk
sharp-sighted
sharp-sightedly
sharp-sightedness
sharp-smelling
sharp-smitten
sharp-snouted
sharp-staked
sharp-staring
sharp-tailed
sharp-tailed grouse
sharp-tailed sparrow
sharp-tasted
sharp-tasting
sharp-tempered
sharp-toed
sharp-tongued
sharp-toothed
sharp-toothed unkindness
sharp-topped
sharp-visaged
sharp-whetted
sharp-winged
sharp-witted
sharp-wittedly
sharp-wittedness
sharpen a distinction
sharpen the wits
sharpen your tools
sharper than a serpent's tooth
sharptail mola
shatter your hopes
shattered mind
shattered nerves
shave away
shave grass
shave hook
shave off
shave rush
shaving basin
shaving board
shaving box
shaving brush
shaving case
shaving cream
shaving cup
shaving dies
shaving glass
shaving horse
shaving mill
shaving mirror
shaving mug
shaving paper
shaving paste
shaving powder
shaving set
shaving soap
shaving stand
shaving stick
shaving strop
shaving towel
shaving water
shawl collar
shawl goat
shawl loom
shawl material
shawl pattern
shawl strap
shawl waistcoat
she all
she pitch pine
she teak
she-actor
she-adventurer
she-ape
she-apostle
she-ass
she-baker
she-balsam
she-bear
she-beech
she-captain
she-chattel
she-costermonger
she-cousin
she-demon
she-devil
she-dragon
she-fish
she-foal
she-fool
she-fox
she-friend
she-goat
she-god
she-gypsy
she-ironbark
she-kind
she-king
she-lion
she-malady
she-monster
she-negro
she-oak
she-page
she-panther
she-peace
she-pig
she-pine
she-poet
she-poetry
she-preacher
she-priest
she-relative
she-saint
she-salmon
she-school
she-scoundrel
she-society
she-sparrow
sheathing felt
sheathing lead
sheathing lumber
sheathing nail
sheathing paper
sheave hole
shed a luster on
shed blood
shed burn
shed dormer
shed fresh light upon
shed hand
shed ink
shed light upon
shed luster on
shed new light upon
shed of
shed roof
shed tears
shed-builder ant
sheeling hill
sheep bar
sheep barn
sheep bell
sheep bot
sheep botfly
sheep boy
sheep breeder
sheep breeding
sheep bur
sheep clipper
sheep clipping
sheep dip
sheep dipper
sheep dipping
sheep dog
sheep fair
sheep farm
sheep farmer
sheep farming
sheep fescue
sheep fescue grass
sheep flake
sheep fly
sheep gadfly
sheep hound
sheep husbandry
sheep ked
sheep-sick
sheep-spirited
sheep-tick
sheep-white
sheep-witted
sheepdog trial
sheepshead minnow
sheepshead porgy
sheepwool sponge
sheer batten
sheer boom
sheer chemistry
sheer draft
sheer drawing
sheer hook
sheer leg
sheer legs
sheer line
sheer off
sheer plan
sheer pole
sheer ratline
sheer stockings
sheer strake
sheer thursday
sheer-built
sheer-hulk
sheer-off
sheet anchor
sheet bend
sheet bundler
sheet cable
sheet chain
sheet down
sheet erosion
sheet film
sheet glass
sheet home
sheet iron
sheet lightning
sheet metal
sheet mill
sheet mold
sheet music
sheet of fire
sheet of rain
sheet pavement
sheet pile
sheet piling
sheet steel
sheet tin
sheet watermark
sheet writer
sheet-anchor
sheet-block
sheet-fed
sheet-fed press
sheeting pile
sheld-duck
shelf bracket
shelf catalogue
shelf fungus
shelf ice
shelf ladder
shelf life
shelf list
shelf mark
shelf plate
shelf rest
shelf warmer
shelf-room
shell auger
shell back
shell bark
shell bean
shell bit
shell boiler
shell button
shell carver
shell cast
shell chuck
shell construction
shell couching
shell crest
shell cut
shell dove
shell down
shell drill
shell edging
shell expansion
shell eye
shell feed
shell fire
shell game
shell gland
shell gray
shell heap
shell hole
shell hooks
shell ibis
shell ice
shell jacket
shell limestone
shell marble
shell money
shell mound
shell out
shell parakeet
shell pear
shell pink
shell plating
shell pump
shell quail
shell reamer
shell reducer
shell road
shell room
shell ruching
shell sac
shell shock
shell snail
shell socket
shell steak
shell stitch
shell strake
shell transformer
shell turtle
shell-carving
shell-fish
shell-leaf
shell-less
shell-like
shell-shaped
shell-shock
shell-shocked
shell-worker
shelly pahoehoe
shelter belt
shelter cabin
shelter deck
shelter half
shelter pit
shelter tent
shelter trench
shelter under
shelter-deck vessel
sheltering trust
shelterwood method
shelving beach
shenk beer
shepherd dog
shepherd god
shepherd king
shepherd spider
shepherd's check
shepherd's dial
shepherd's dog
shepherd's needle
shepherd's pie
shepherd's pipe
shepherd's plaid
shepherd's purse
shepherd's staff
shepherd's weatherglass
shepherd's-purse
shepherd's-scabious
shepherds-staff
sherbet powder
shere khan
sheriff court
sheriff depute
sheriff substitute
sheriff-pink
sherry brown
sherry cobbler
shetland pony
shetland sheepdog
shetland wool
shibuichi-doshi
shick-shack
shield arm
shield back
shield bearer
shield bud
shield budding
shield bug
shield cell
shield fern
shield fungus
shield grid
shield roots
shield wall
shield-back
shield-bearer
shield-bearing
shield-breaking
shield-fern
shield-headed
shield-leaved
shield-maiden
shield-scale fungus
shield-shaped
shield-tailed snake
shuffle-shuffle
shift about
shift ballast
shift bid
shift boss
shift for yourself
shift into
shift joint
shift key
shift lock
shift marriage
shift of structure
shift of tense
shift off
shift place
shift the blame
shift the control
shift the responsibility
shift the rudder
shift the scene
shift with
shift your ground
shifter fork
shifting course
shifting cultivation
shifting path
shifting pedal
shifting sands
shifting scene
shifting spanner
shifting trust
shifting use
shifty-eyed
shih-tzu
shilling mark
shilling shocker
shilly-shallied
shilly-shallies
shilly-shally
shilly-shallyer
shilly-shallying
shilly-shallyingly
shim plow
shim-sham
shimmer with heat
shin guard
shin oak
shin up
shin-bone
shin-tangle
shindig dancer
shine a light
shine at
shine brightly
shine forth
shine in
shine out
shine through
shine up to
shine upon
shiner perch
shiner sea perch
shiner-up
shingle band
shingle bolt
shingle lap
shingle oak
shingle roof
shingle tree
shingle weaver
shingle-back
shining example
shining flycatcher
shining from shook foil
shining light
shining oat grass
shining willow
shiny-backed
ship ahoy
ship auger
ship biscuit
ship boat
ship borer
ship breaker
ship broker
ship-chandler
ship-holder
ship-load
ship-minded
ship-mindedly
ship-mindedness
ship-money
ship-of-war
ship-rigged
ship-shape
ship-shaped
ship-to-shore
ship-to-shore radio
shipboard interceptor
shipboard plane
shiplapped lumber
shipper fork
shipping articles
shipping center
shipping clerk
shipping commissioner
shipping fever
shipping mark
shipping master
shipping note
shipping office
shipping order
shipping pneumonia
shipping room
shipping ton
shipping-dry
shipplane carrier
shipshape and Bristol fashion
shire borough
shire day
shire ground
shire horse
shire knight
shire moot
shire reeve
shire town
shire-moot
shirley poppy
shirred eggs
shirt board
shirt dresser
shirt frame
shirt frill
shirt front
shirt ironer
shirt sleeve
shirt-dress
shirt-sleeve
shirt-sleeve diplomacy
shirt-sleeved
shirt-tail
shirtwaist dress
shirtwaist suit
shish kebab
shit in your pants
shit-headed
shittah tree
shittim wood
shive wheel
shiver my timbers
shiver spar
shoal duck
shoal water
shock absorber
shock action
shock battalion
shock bump
shock cord
shock corps
shock dog
shock force
shock pad
shock reaction
shock soldier
shock tactics
shock therapy
shock treatment
shock troops
shock tube
shock wave
shock-bucker
shock-dog
shock-head
shocking pink
shoe blacking
shoe block
shoe board
shoe boil
shoe bolt
shoe box
shoe buckle
shoe button
shoe cleaner
shoe dauber
shoe dealer
shoe department
shoe drill
shoe dye
shoe fastener
shoe findings
shoe last
shoe faster
shoe leather
shoe lifter
shoe machinery
shoe mender
shoe merchant
shoe nail
shoe peg
shoe piece
shoe polish
shoe polisher
shoe repaired
shoe shiner
shoe silver
shoe stone
shoe store
shoe tie
shoe tree
shoe trimmer
shoe-button spider
shoe-cleaning
shoe-horn
shoe-leather
shoe-make
shoe-spoon
shoebblack plant
shoeling-horn
shoeless horse
shoestring catch
shoestring fern
shoestring fungus
shoestring lily
shoestring margin
shoestring potato
shoestring weed
shoggy-shoo
shoo-fly pie
shoo-in
shoofly finger
shoofly pie
shook swarming
shook up
shook-up
shoot ahead
shoot ahead of
shoot apex
shoot at
shoot back
shoot ballast
shoot craps
shoot down
shoot down in flames
shoot for
shoot full of holes
shoot into space
shoot it out with
shoot off at an angle
shoot off your face
shoot off your mouth
shoot out
shoot out rays
shoot questions at
shoot straight
shoot straight with
shoot the breeze
shoot the bull
shoot the chutes
shoot the shit
shoot the sun
shoot the works
shoot through
shoot to death
shoot up
shoot your bolt
shoot your cookies
shoot-'em-up
shoot-off
shoot-out
shoot-root ratio
shoot-the-chutes
shooting board
shooting box
shooting brake
shooting coat
shooting fish
shooting gallery
shooting glove
shooting iron
shooting jacket
shooting lodge
shooting match
shooting pain
shooting range
shooting script
shooting star
shooting stick
shooting up
shooting war
shop around
shop assistant
shop at
shop bill
shop chairman
shop clerk
shop committee
shop complex
shop deputy
shop drawing
shop fitter
shop floor
shop lumber
shop paper
shop right
shop rivet
shop steward
shop-board
shop-made
shop-soiled
shop-window
shopping cart
shopping center
shopping centre
shopping complex
shopping goods
shopping mall
shopping plaza
shopping precinct
shopping spree
shore bird
shore boat
shore boulder
shore cod
shore cover
shore crab
short jenny
short leet
short leg
short line
short list
short loin
short measure
short memory
short memory span
short odds
short of
short of breath
short of cash
short of funds
short of luck
short of money
short of wind
short on looks
short order
short out
short pants
short particular meter
short period
short piece
short plate
short position
short range aid to navigation
short rations
short rib
short ribs
short sale
short score
short seller
short session
short short story
short shorts
short shrift
short side
short sight
short snorter
short spell
short splice
short step
short stock
short story
short subject
short suit
short supply
short sweetening
short temper
short time
short title
short ton
short up
short version
short vowel
short wave
short way
short weight
short wool
short-arm
short-arm balance
short-arm blow
short-armed
short-awned
short-barred
short-barreled
short-beaked
short-bearded
short-billed
short-bitten
short-bladed
short-bobbed
short-bodie
d short-branched
short-bread
short-breasted
short-breathed
short-breathing
short-cake
short-celled
short-change
short-changed
short-changer
short-changing
short-chinned
short-circuit
short-circuiter
short-clawed
short-cloaked
short-commons
short-coupled
short-crested
short-cropped
short-crowned
short-cut
short-cycle
short-cycled
short-dated
short-day
short-distance
short-docked
short-drawn
short-eared
short-eared owl
short-extend
short-eyed
short-faced
short-fed
short-fingered
short-finned
short-footed
short-fruited
short-grained
short-growing
short-hair
short-hair plume grass
short-haired
short-handed
short-handled
short-haul
short-headed
short-headedness
short-heeled
short-hop airline
short-horned
short-horned grasshopper
short-jointed
short-keeled
short-laid
short-landed
short-lasting
short-leaf
short-leaved
short-legged
short-limbed
short-lined
short-list
short-lived
short-livedness
short-living
short-long
short-lunged
short-made
short-manned
short-measured
short-mouthe
short-nailed
short-napped
short-necked
short-nighted
short-nosed
short-order
short-order cook
short-period comet
short-period variable
short-pitch
short-pitch winding
short-podded
short-pointed
short-quartered
short-range
short-run
short-running
short-set
short-shafted
short-shanked
short-shelled
short-shipped
short-short
short-shouldered
short-shucks
short-sighted
short-sightedness
short-skirted
short-sleeved
short-sleeved shirt
short-sloped
short-snouted
short-span
short-spined
short-spined sea scorpion
short-spired
short-spoken
short-spurred
short-staffed
short-stalked
short-staple
short-staple isinglass
short-statured
short-stemmed
short-stepped
short-stop
short-stop bath
short-story
short-story writer
short-story writing
short-styled
short-suiter
short-sword
short-tailed
short-tailed shrew
short-tempered
short-term
short-term bond
short-term loan
short-term memory
short-term note
short-termed
short-time
short-time rating
short-toed
short-tongued
short-toothed
short-trunked
short-trussed
short-twisted
short-waisted
short-wall machine
short-weight
short-weighter
short-winded
short-windedly
short-windedness
short-winged
short-witted
short-wool
short-wooled
short-wristed
shorten sail
shortened version
shortest way
shortfin corvina
shorthand typist
shortleaf pine
shortleaf yellow pine
shortness of breath
shortstop bath
shortwave antenna
shortwave band
shortwave broadcasting
shortwave diathermy
shortwave diathermy machine
shortwave radio
shortwave receiver
shortwave signal
shortwave station
shortwave transmitter
shot borer
shot bort
shot cartridge
shot corn
shot crossbow
shot drill
shot effect
shot garland
shot glass
shot hoist
shot hole
shot holing
shot hooks
shot in the arm
shot in the dark
shot in the locker
shot lighter
shot line
shot locker
shot metal
shot noise
shot plant
shot put
shot rope
shot samples
shot silk
shot through
shot to pieces
shot tongs
shot tower
shot-blasting
shot-clog
shot-free
shot-gun
shot-hole borer
shot-log
shot-pee
shot-put
shot-puter
shot-putting
shoulder-strap
shouldered arch
shout at the top of your voice
shout defiance
shout down
shout from the housetops
shout hallelujah
shout hosanna
shout of laughter
shout out
shout song
shouting distance
shove aside
shove away
shove in your oar
shove off
shove the queer
shove-groat
shove-ha'penny
shove-halfpenny
shove-hapenny
shoved joint
shovel cultivator
shovel hat
shovel plow
shovel-beaked
shovel-bladed
shovel-board
shovel-footed
shovel-handed
shovel-hatted
shovel-headed
shovel-moutthed
shovel-nose
shovel-nosed
shovel-nosed duck
shovel-nosed ray
shovel-nosed shark
shovel-nosed sturgeon
shovel-shaped
shovelhead catfish
shovelhead shark
shovelnose sturgeon
shoving match
show a bold front
show a clean pair of heels
show a deficit
show a direction
show a lack of respect for
show a leg
show a light pair of heels
show a proper spirit
show a set
show a tendency
show a trend
show aptitude for
show bill
show biz
show box
show business
show card
show consideration
show copy
show dahlia
show disrespect for
show distaste for
show dog
show end
show expertise
show fight
show forth
show fragility
show geranium
show girl
show glass
show how
show improvement
show in the best colors
show its colors
show its face
show kindness to
show marks of age
show mercy
show no amazement
show no appetite
show no mercy
show of hands
show of joy
show off
show one's cards
show one's face
show palce
show pipe
show pity
show preference
show resentment
show respect
show respect for
show ring
show sensitivity
show signs of
show signs of life
show someone the door
show stone
show stopper
show sufficient grounds for
show tact
show talent for
show the door
show the gate
show the heels
show the way
show the white feather
show the white flag
show through
show trial
show up
show up late
show what you have
show window
show you your place
show your age
show your authority
show your cards
show your colors
show your face
show your hand
show your heels to
show your mind
show your teeth
show your true colors
show yourself
show-bread
show-me
show-off
show-offish
show-offy
show-through
show-worthy
shower bath
shower bouquet
shower curtain
shower down
shower down upon
shower head
shower room
shower stall
shower-bath
showing for all to see
showing forth
showing up
showing-off
shown up
showy crab apple
showy gaillardia
showy mentzelia
showy milkweed
showy orchis
showy portulaca
showy primrose
showy sunflower
showy-flowered
showy-leaved
shred of comfort
shred-pie
shrew mole
shrewd-brained
shrewd-headed
shrewd-looking
shrewd-pated
shrewd-tongued
shrewd-witted
shriek owl
shriek-owl
shrift-father
shrike thrush
shrike tit
shriil sound
shriil-edged
shriil-gorged
shriil-toned
shriil-tongued
shriil-voiced
shrimp catcher
shrimp pink
shrimp red
shrink back
shrink fit
shrink from
shrink link
shrink rule
shrink-wrap
shrinkage fit
shrinkage rule
shrinkage stope
shrinking fit
shrinking head
shrinking violet
shrive yourself
shrivel up
shriveled up
shroud knot
shroud line
shroud lines
shroud plate
shroud-laid
shrouded in darkness
shrouded in mystery
shrouded spirit
shrove monday
shrove sunday
shrove tuesday
shrove-tide
shroving time
shrub cinquefoil
shrub mallow
shrub oak
shrub steppe
shrub willow
shrub yellowroot
shrubby cinquefoil
shrug away
shrug it off
shrug off
shrug the shoulders
shrug your shoulders at
shuck off
shuck spray
shuck-bottom
shudder at
shudder of the flesh
shuffle along
shuffle off
shuffle off this mortal coil
shuffle on
shuffle out of
shuffle scale
shuffle the cards
shuffle-board
shun companionship
shun-pike
shunt circuit
shunt dynamo
shunt excitation
shunt field
shunt lamp
shunt lead
shunt motor
shunt valve
shunt winding
shunt-wound
shunting engine
shunting off
shut down
shut down on
shut fast
shut in
shut it down
shut mind
shut my mouth
shut of
shut of day
shut off
shut out
shut the door
shut the door in your face
shut the door to
shut the door upon
shut the eyes of your mind
shut the eyes to
shut tight
shut up
shut up shop
shut your bazoo
shut your doors
shut your ears
shut your eyes
shut your eyes to
shut your face
shut your mouth
shut your trap
shut yourself up
shut-away
shut-eye
shut-in
shut-in personality
shut-mouthed
shut-off
shut-out
shut-out bid
shut-up
shutter box
shutter dam
shutter speed
shutter weir
shutting post
shutting stile
shutting up
shutting-in
shuttle armature
shuttle bombing
shuttle bone
shuttle box
shuttle diplomacy
shuttle flights
shuttle loading
shuttle race
shuttle raid
shuttle rocket
shuttle service
shuttle shell
shuttle train
shuttle trip
shuttle winding
shuttle-core
shuttle-core magneto
shuttle-witted
shuttle-wound
shuttlecock-flower
shutur sowar
shy at
shy away
shy of
shy of belief
shy off
shy on
shy person
si quaeris peninsulam amo
si quis
siamese cat
siamese connection
siamese joint
siamese twin
sibber sauce
sibby bean
siberian brown
siberian husky
sic at
sic on
sic passim
sic semper tyrannis
sic transit gloria mundi
sicca rupee
sick abed
sick and tired of
sick as a dog
sick at heart
sick at the stomach
sick bay
sick berth
sick call
sick fancy
sick flag
sick headache
sick humor
sick in the head
sick joke
sick leave
sick list
sick market
sick mind
sick nurse
sick of
sick on each other
sick pay
sick person
sick to the stomach
sick to your stomach
sick unto death
sick up
sick-abed
sick-bed
sick-brained
sick-fallen
sick-feathered
sick-in
sick-list
sick-nurse
sick-nursish
sick-out
sick-pale
sick-thoughted
sicken at
sicken for
sicken of
sicken with
sickle bar
sickle bender
sickle cell
sickle cell anaemia
sickle cell anemia
sickle cell disease
sickle feather
sickle ham
sickle herb
sickle hock
sickle medick
sickle of Death
sickle senna
sickle thorn
sickle-billed
sickle-billed curlew
sickle-billed thrasher
sickle-cell
sickle-cell anemia
sickle-cell disease
sickle-grass
sickle-hammed
sickle-hocked
sickle-leaved
sickle-like
sickle-shaped
sickle-tailed
sickly hue
sickly-born
sickly-colored
sickly-looking
sickly-seeming
sickly-sweet
sickly-sweetness
sickness benefit
sickness insurance
sicut patribus sit Deus nobis
side action
side aisle
side arm
side arms
side ax
side band
side bar
side beam
side bench
side bet
side box
side boy
side brake
side by side
side cap
side car
side card
side chain
side chair
side chapel
side check
side chisel
side circuit
side cut
side cutting
side delivery
side dish
side door
side drum
side effect
side face
side frequency
side hatchet
side horse
side interest
side issue
side jointer
side keelson
side ladder
side lamp
side light
side line
side meat
side mirror
side oats
side of bacon
side of controversy
side partner
side path
side prime
side reaction
side remark
side road
side room
side scene
side sewing
side step
side stitch
side street
side suit
side table
side thread stitch
side whisker
side whiskers
side wire stitch
side with
side-bar
side-bar keel
side-bar rule
side-beam engine
side-bended
side-bone
side-box
side-by-side
side-by-sideness
side-cast
side-chain theory
side-cut
side-door
side-dress
side-dressed
side-dressing
side-end
side-end line
side-flowing
side-glance
side-graft
side-handed
side-hanging
side-kick
side-lever
side-lever engine
side-light
side-line
side-liner
side-look
side-looker
side-lying
side-necked
side-on
side-post
side-saddle
side-seen
side-show
side-skip
side-slip
side-splitting
side-step
side-stepped
side-stepper
side-stepping
side-stick
side-stitched
side-table
side-taking
side-track
side-valve engine
side-view
side-walk
side-wall
side-wheel
side-wheeler
side-whiskered
side-whiskers
side-wind
side-winded
side-winder
sidearm heater
sidelight castle
sidelight tower
sidelong look
sider-
siderating plague
sidereal clock
sidereal day
sidereal hour
sidereal hour angle
sidereal minute
sidereal month
sidereal second
sidereal time
sidereal universe
sidereal year
siderin yellow
sidero-
sidesaddle flower
sideslip landing
sidewalk artist
sidewalk bike
sidewalk door
sidewalk elevator
sidewalk salesman
sidewalk superintendent
sideward motion
siding tool
siding track
sidle up to
siege artillery
siege cannon
siege carriage
siege engine
siege gun
siege howitzer
siege mortar
siege perilous
siege piece
siege train
siege wagon
siege warfare
siegfried line
sierra brownbark pine
sierra juniper
sierra plum
sierra redbark pine
sieva bean
sieve cell
sieve disk
sieve maker
sieve making
sieve out
sieve pit
sieve plate
sieve pore
sieve tissue
sieve tube
sieve vessel
sift out
sifting out
sigh for
sigh of relief
sigh-born
sighed-for
sight bill
sight draft
sight edge
sight for sore eyes
sight gag
sight land
sight line
sight on
sight point
sign up
sign up for
sign your death warrant
sign your note
sign-board
sign-manual
sign-off
sign-post
signal alarm
signal beacon
signal bell
signal board
signal box
signal corps
signal display
signal fades
signal fire
signal flag
signal flare
signal generator
signal gong
signal gun
signal halyard
signal lamp
signal lantern
signal light
signal lights
signal mast
signal modulation
signal multiplier
signal noise ratio
signal of distress
signal oil
signal post
signal red
signal relay
signal rocket
signal separator
signal service
signal shot
signal siren
signal squirter
signal tower
signal whistle
signal wire
signal-noise ratio
signal-to-noise ratio
signature loan
signature mark
signature tune
signed and sealed
signet ring
signet-ring
significance level
significant fact
significant figures
significant form
significate form
signify nothing
signifying nothing
signing on
signs manual
signs of the zodiac
silage cutter
silence cloth
silence of the grave
silence of the tomb
silent area
silent as a post
silent as a stone
silent as the grave
silent as the shadows
silent as the tomb
silent barter
silent butler
silent cataracts
silent chain
silent consent
silent discharge
silent film
silent majority
silent partner
silent poetry
silent prayer
silent service
silent trade
silent treatment
silic-
silica brick
silica gel
silica glass
silica ware
silicate cotton
silicate paint
silicated soap
siliceo-
silici-
silicic acid
silicified wood
silicium bronze
silico-
silicon bronze
silicon carbide
silicon controlled rectifier
silicon copper
silicon dioxide
silicon fluoride
silicon hydride
silicon nitrimide
silicon spiegel
silicon star
silicon steel
silicon tetrachloride
silicon tetraethyl
silicon tetrafluoride
silicone resin
silicone rubber
silk cotton
silk coverer
silk discharger
silk floss
silk fowl
silk gelatin
silk gland
silk glue
silk gown
silk grass
silk green
silk gum
silk hat
silk louse
silk mercer
silk mill
silk moth
silk muslin
silk oak
silk paper
silk plant
silk serge
silk snapper
silk spider
silk spinner
silk stocking
silk stockings
silk stretcher
silk tartan
silk tester
silk thrower
silk throwster
silk tree
silk vine
silk weaver
silk wire
silk-bark
silk-bark oak
silk-cotton
silk-cotton family
silk-cotton tree
silk-family
silk-gownsman
silk-hatted
silk-robbed
silk-screen
silk-screen artist
silk-screen printing
silk-screen process
silk-skirted
silk-soft
silk-stocking
silk-stocking district
silk-stocking politics
silk-stocking ward
silk-stockinged
silk-tail
silk-tassel tree
silk-winder
silken repose
silken-coated
silken-fastened
silken-leafed
silken-sailed
silken-sandaled
silken-shining
silken-soft
silken-threaded
silken-winged
silk-ing machine
silkscreen process
silkworm gut
silkworm jaundice
silkworm moth
silkworm rot
silver fir
silver fish
silver fizz
silver fluoride
silver foil
silver fox
silver frost
silver fulminate
silver gilt
silver grain
silver grass
silver gray
silver green
silver hair
silver hake
silver iodate
silver iodide
silver jenny
silver jubilee
silver king
silver kings
silver lace
silver lactate
silver lead
silver leaf
silver lining
silver maple
silver medal
silver mill
silver mine
silver miner
silver mining
silver morning-glory
silver nitrate
silver ore
silver oxide
silver paper
silver perch
silver plate
silver plater
silver plating
silver point
silver polish
silver powder
silver protein
silver queen
silver sage
silver salmon
silver salt
silver screen
silver smelter
silver spoon
silver standard
silver star medal
silver storm
silver thaw
silver threads among the gold
silver tin
silver tongue
silver vine
silver vitellin
silver wattle
silver wedding
silver wedding anniversary
silver white
silver-backed
silver-bar
silver-bar fish
silver-barked
silver-barred
silver-bearded
silver-bearing
silver-bell
silver-bell tree
silver-black
silver-bordered
silver-bright
silver-buskined
silver-chased
silver-chiming
silver-clasped
silver-clear
silver-coated
silver-colored
silver-coloured
silver-copper
silver-corded
silver-cupped
silver-eddied
silver-embroidered
silver-eye
silver-eyed
silver-eyes
silver-feathered
silver-fleeced
silver-flowing
silver-footed
silver-fork
silver-fronted
silver-glittering
silver-golden
silver-grained
silver-gray
silver-grey
silver-hafted
silver-haired
silver-handled
silver-headed
silver-lace vine
silver-laced
silver-lead
silver-leafed
silver-leaved
silver-leaved linden
silver-leaved nightshade
silver-lined
silver-mail
silver-melting
silver-mounted
silver-penciled
silver-plate
silver-plated
silver-plating
silver-print drawing
silver-producing
silver-rag
silver-rimmed
silver-shafted
silver-shedding
silver-shining
silver-smitten
silver-sounded
silver-sounding
silver-spangled
silver-spoon
silver-spoonism
silver-spotted
silver-streaming
silver-striped
silver-studded
silver-sweet
silver-swelling
silver-thread
silver-thread blight
silver-thrilling
silver-tipped
silver-toned
silver-tongue
silver-tongued
silver-tongued orator
silver-true
silver-tuned
silver-using
silver-voiced
silver-washed
silver-winged
silver-wiry
silver-work
silverberry family
silverleaf boree
silverleaf linden
silverleaf maple
silverleaf poplar
silverleaf redwood
silvertop palmetto
silverwing gray
silvery hair
silvery moon
silvi-
simblin cake
simchas torah
simian shelf
similar sound
similar sounding
similarity transformation
simile mark
similia similibus curantur
simmer down
simmel cake
simon legree
simon pure
simon-pure
simple Fink truss
simple algebra
simple algebraic extension
simple arc
simple as ABC
simple assault
simple chancre
simple circularity
simple closed curve
simple contract
simple diet
simple enumeration
simple equation
simple extension
simple fact
simple fraction
simple fracture
simple fruit
simple harmonic motion
simple honors
simple idea
simple inflammation
simple interest
simple interval
simple larceny
simple machine
simple majority
simple measure
simple microscope
simple motion
simple pole
simple protein
simple radical
simple reflex
simple sentence
simple soul
simple syrup
simple tense
simple time
simple transcendental extension
simple twist of the wrist
simple variable
simple vow
simple-armed
simple-faced
simple-headed
simple-hearted
simple-leaved
simple-life
simple-lifer
simple-mannered
simple-minded
simple-mindedly
simple-mindedness
simple-rooted
simple-seeming
simple-speaking
simple-stemmed
simple-toned
simple-tuned
simple-witted
simple-wittedness
simplex method
simplex telegraphy
simply and solely
simply connected
simply ordered
simply ordered set
simply-connected
simulated rank
simultaneous equations
sin against the Holy Ghost
sin eater
sin eating
sin money
sin of Adam
sin of commission
sin of omission
sin of pride
sin offering
sin rent
sin-absolved
sin-absolving
sin-afflicting
sin-black
sin-born
sin-bred
sin-burdened
sin-burthened
sin-chastising
sin-clouded
sin-concealing
sin-condemned
sin-consuming
sin-crushed
sin-drowned
sin-guilty
sin-indulging
sin-laden
sin-loving
sin-mortifying
sin-offering
sin-proud
sin-revenging
sin-sick
sin-sickness
sin-soiling
sin-sowed
sin-thrallled
sin-washing
sin-wounded
sinay bean
since God knows when
since Hector was a pup
since days of yore
since long ago
since the world was made
since the world was young
since the year one
since time began
sincere friendship
sindbad the sailor
sine bar
sine curve
sine die
sine galvanometer
sine law
sine mechanism
sine prole
sine qua non
sine wave
sine-qua-nonical
sine-qua-noniness
sine-wave
sinew-backed
sinew-grown
sinew-shrunk
sinful act
sing a different tune
sing a familiar tune
sing deathless songs
sing in chorus
sing in the shrouds
sing out
sing praises
sing small
sing the blues
sing the praise of
sing the praises of
sing the same old song
sing the same old tune
sing your own praises
sing your praises
sing-in
sing-sing
sing-song
singhara nut
singing bird
singing book
singing bread
singing club
singing lesson
singing master
singing part
singing psalm
singing school
singing society
singing teacher
singing voice
single Spanish burton
single bed
single blessedness
single block
single bond
single combat
single condition
single crochet
single cut
single doubler
single entry
single file
single girl
single knot
single man
single messages
single microscope
single mordent
single out
single person
single purchase
single quotation marks
single quotes
single reed
single rhyme
single sap
single sculls
single shell
single sideband
single sideband transmission
single space
single standard
single state
single step rocket
single stitch
single system
single tackle
single tape
single tax
single taxer
single ticket
single transfer
single transferrable vote
single voice
single vote
single voting
single whip
single wicket
single wing
single wingback formation
single woman
single-acting
single-acting engine
single-action
single-action engine
single-bank
single-banked
single-barrel
single-barreled
single-barrelled
single-beat
single-bitted
single-blind
single-blossomed
single-bodied
single-branch
single-breasted
single-breasted jacket
single-breasted suit
single-button carbon microphone
single-caped
single-cell
single-celled
single-chamber
single-colored
single-combed
single-crested
single-crop
single-cross
single-current telegraphy
single-cut
single-cutting
single-cylinder
single-deck
single-decker
single-disk
single-dotted
single-driver
single-edged
single-end
single-ended
single-entry
single-entry accounting
single-entry bookkeeping
single-eyed
single-file
single-filed
single-finned
single-fire
single-flowered
single-foot
single-footer
single-framed
single-fringed
single-gear
single-grown
single-handed
single-handedly
single-handedness
single-hander
single-headed
single-hearted
single-heartedly
single-heartedly
single-heartedness
single-hoofed
single-hooked
single-horned
single-horsed
single-hung
single-jet
single-layer
single-layered
single-ledged
single-leaf
single-leaf ash
single-leaved
single-lens reflex
single-letter
single-lever
single-light
single-line
single-living
single-loader
single-masted
single-measure
single-member
single-member constituency
single-member district
single-minded
single-mindedly
single-mindedness
single-motored
single-mouthed
single-name
single-name paper
single-nerved
single-pass
single-pen
single-phase
single-phase alternating current
single-phase motor
single-phaser
single-piece
single-pitched
single-plated
single-ply
single-pointed
single-pole
single-prop
single-punch
single-rail
single-reed
single-reed instrument
single-reefed
single-rivet
single-riveted
single-row
single-screw
single-seated
single-seater
single-seed
single-seed cucumber
single-seeded
single-shear
single-sheaved
single-shooting
single-shot
single-soled
single-space
single-speech
single-stage
single-stage rocket
single-step
single-stepped
single-stick
single-stitch
single-strand
single-strength
single-stroke
single-surfaced
single-swing
single-swing joint
single-tap
single-tax
single-thoughted
single-threaded
single-throw
single-throw switch
single-tongue
single-tonguing
single-track
single-tree
single-trip
single-trunked
single-twist
single-twisted
single-valued
single-walled
single-wheel
single-wheeled
single-whip
single-whip tackle
single-wicket
single-wire
single-wired
singled out
singled-out
singleness of heart
singleness of purpose
singles court
singular point
singular proposition
sinister influence
sinister-handed
sinistro-
sink away
sink back
sink boat
sink box
sink down
sink in
sink in the mind
sink into despair
sink into oblivion
sink into the mind
sink like lead
sink money in
sink of corruption
sink of iniquity
sink or swim
sink or swim with
sink your soul
sink-hole
sink-stone
sinker bar
sinker boat
sinker drill
sinker wood
sinkhole drainage
sinking bowl
sinking fund
sinking head
sinking heart
sinking speed
sinking stomach
sinking-fund
sinking-fund bond
sinking-fund payment
sinn fein
sino-
sino-tibetan
sinoatrial node
sinuate-leaved
sinuato-
sinumbra lamp
sinuoso-
 sinus arrhythmia
sinus band
sinus node
sinusoidal circuit
sinusoidal projection
siphon alga
siphon barometer
siphon bottle
siphon condenser
ciphon cup
ciphon gauge
ciphon off
ciphon recorder
ciphon slide
ciphon spillway

ciphono-
sir-reverence
sirdar bearer
sire-found
siren song
sirloin steak
sirup sorghum
sisal hemp
siskin parrot
sissy-pants
sister block
sister cell
sister fold
sister hook
sister keelson
sister rib
sister ship
sister-german
sister-in-law
sister-wife
sisters under the skin
sit around
sit at
sit at the feet of
sit back
sit bolt upright
sit by
sit down
sit down at the bargaining table
sit down on
sit down together
sit down with
sit in
sit in for
sit in judgment
sit in on
sit it out
sit on
sit on a barrel of gunpowder
sit on the dais
sit on the fence
sit on the sidelines
sit on the tail of
sit on the throne
sit on your ass
sit on your butt
sit on your duff
sit on your hands
sit out
sit over
sit pretty
sit shibah
sit tight
sit under
sit up
sit up and take notice
sit up for
sit upon
sit upon thorns
sit well with one
sit well with you
sit-down
sit-down strike
sit-downer
sit-fast
sit-in
sit-up
sit-upon
sitdown striker
site development
site land
sitio-
sitka spruce
sito-
sitter-by
sitter-in
sitter-out
sitting day
sitting duck
sitting height
sitting place
sitting room
sitting shot
sitting tenant
sitting trot
situation comedy
situation ethics
situational neurosis
situational psychosis
situs inversus
sitz bath
siva snake
siva-siva
siwash sweater
six and two threes
six feet above contradiction
six feet under
six o’clock
six point
six ways from Sunday
six-acre
six-angled
six-arched
six-banded
six-bar
six-barred
six-barreled
six-bottle
six-by-six
six-canted
six-cent
six-chambered
six-colored
six-cornered
six-coupled
six-course
six-cut
six-cylinder
six-cylindered
six-day
six-dollar
six-eared
six-edged
six-eight
six-eight time
six-ell
six-eyed
six-faced
six-figure income
six-figured
six-fingered
six-flowered
six-foiled
six-foot
six-footed
six-footer
six-gallon
six-gated
six-gilled
six-gilled shark
six-grain
six-gram
six-gun
six-headed
six-hoofed
six-horse
six-hour
six-inch
six-jointed
six-leaved
six-legged
six-letter
six-lettered
six-lined
six-lobed
six-masted
six-master
six-mile
six-minute
six-mouth
six-o-six
six-oared
six-oclock
six-ounce
six-pack
six-part time
six-petaled
six-phase
six-plumed
six-ply
six-pointed
six-pointed star
six-pot
six-pound
six-pounder
six-ranked
six-rayed
six-ribbed
six-room
six-roomed
six-rowed
six-second
six-shafted
six-shared
six-shilling
six-shooter
six-sided
six-spined
six-spot
six-spotted
six-storied
six-story
six-stringed
six-striped
six-syllable
six-three-three
six-time
six-ton
six-week
six-weeks grass
six-wheel
six-wheeled
six-wheeler
six-winged
six-yard
six-yard area
six-yard line
six-year
six-year-old
sixpenny bit
sixteen-foot
sixteen-foot stop
sixteen-pounder
sixteenth note
sixteenth rest
sixth chord
sixth column
sixth form
sixth nerve
sixth sense
sixth-floor
sixth-form
sixth-grade
sixth-rate
sixty per cent
sixty-eight
sixty-eighth
sixty-fifth
sixty-first
sixty-five
sixty-four
sixty-four-dollar question
skeleton key
skeleton leaf
skeleton movement
skeleton pattern
skeleton proof
skeleton regiment
skeleton shrimp
skeleton suit
skelic index
skelpie-limmer
skene arch
skene dhu
sketch book
sketch map
sketch out
sketch plan
sketch plate
sketch-book
skew arch
skew chisel
skew distribution
skew field
skew polygon
skew putt
skew table
skew-back
skew-gee
skew-jawed
skew-symmetric
skewed judgment
skewer-up
ski boot
ski boots
ski bum
ski jacket
ski jump
ski landing gear
ski lift
ski pants
ski pole
ski run
ski stick
ski suit
ski sweater
ski tow
ski troops
ski wax
ski-jumping
ski-plane
skia-
skid box
skid chain
skid engine
skid fin
skid landing gear
skid platform
skid road
skid row
skid to a stop
skid-row bum
skidding hooks
skidding sled
skidding trail
skiffle band
skill facet
skill with language
skill with words
skill-less
skill-lessness
skilled hand
skilled in
skilled laborer
skilled workman
skillet chopper
skim coat
skim colter
skim gate
skim milk
skim off
skim over
skim the surface
skim through
skim-coulter
skim-milk
skimble-scamble
skimble-skamble
skimmed milk
skimmer cake
skimmer gate
skimmer scoop
skimming back
skimming dish
skimming gate
skimming-dish
skimmington ride
skimper-scamper
skin-popping
skin-shifter
skin-spread
skin-testing
skin-tight
skinned alive
skinning alive
skinning knife
skinning loam
skinny as a lath
skinny as a rail
skinny dip
skinny dipper
skinny-dip
skinny-dipped
skinny-dipper
skinny-dipping
skinny-dipt
skinny-necked
skip bail
skip bomb
skip bridge
skip car
skip distance
skip elevator
skip for joy
skip hoist
skip it
skip numbering
skip off
skip out
skip over
skip rope
skip straight
skip through
skip tracer
skip zone
skip-bomb
skip-bombing
skip-kennel
skipjack pike
skipjack tuna
skipping rope
skipping-rope
skirmish drill
skirmish line
skirt cassock
skirt chaser
skirt dance
skirt dancer
skirt marker
skirt of tasses
skirt the shore
skirt-dancer
skirting board
skirting table
skirting-board
skittle alley
skittle ball
skittle out
skittle pool
skittle pot
skittle-shaped
skivvy shirt
skookum-house
skrim shander
skua gull
skulk away
skull and crossbones
skull cracker
skull practice
skull session
skull-built
skull-cap
skull-covered
skull-crowned
skull-dividing
skull-hunting
skull-less
skull-like
skull-lined
skullcap speedwell
skunk bear
skunk bird
skunk blackbird
skunk cabbage
skunk currant
skunk grape
skunk mushroom
skunk plant
skunk porpoise
skunk spruce
skunk turtle
skunk-drunk
skunk-headed
skunkhead coot
sky-falling
sky-gazer
sky-god
sky-high
sky-kissing
sky-line
sky-line logging
sky-measuring
sky-planted
sky-reaching
sky-rending
sky-resembling
sky-rocket
sky-ruling
sky-sail
sky-scaling
sky-scraper
sky-sign
sky-throned
sky-tinctured
sky-touching
sky-worn
skyye terrier
skyhook balloon
skysail mast
skysail pole
skysail yard
skysail-yarder
slab bridge
slab dashing
slab house
slab line
slab mill
slab pahoehoe
slab plastering
slab reef
slab tie
slab top
slab-sided
slab-sidedly
slab-sidedness
slabbing cutter
slabbing machine
slabbing mill
slack back
slack barrel
slack coal
slack cooperage
slack filling
slack jaw
slack off
slack purse strings
slack suit
slack up
slack water
slack-bake
slack-baked
slack-filled
slack-jawed
slack-laid
slack-off
slack-rope
slack-rope artist
slack-salted
slack-spined
slack-twisted
slack-up
slack-water
slag cement
slag concrete
slag down
slag furnace
slag heap
slag hearth
slag sand
slag wool
slag-hearth
slag-lead
slag-tap furnace
slagging furnace
slagging hole
slake trough
slake your thirst
slaked lime
slam bidding
slam into
slam the door in your face
slam-bang
slamming stile
slang dictionary
slang-whang
slang-whanger
slanging match
slant across
slant culture
slant dam
slant front
slant height
slant of wind
slant rhyme
slant-eye
slant-eyed
slant-top
slanting hand
slap a tax on
slap around
slap at
slap dashing
slap down
slap in the face
slap in the middle
slap of the glove
slap on
slap on paint
slap on the wrist
slap plastering
slap the face
slap the lid on
slap up
slap you in the face
slap your face
slap-bang
slap-bang shop
slap-dab
slap-dash
slap-sided
slap-slap
slap-up
slapstick comedian
slapstick comedy
slapstick humor
slapstick quality
slash across
slash bar
slash mark
slash pine
slash pocket
slash the throat
slash-grain
slash-saw
slash-sawed
slash-sawing
slash-sawn
slat bonnet
slat sign
slat-back
slate ax
slate bed
slate black
slate blue
slate cement
slate clay
slate galiot
slate gray
slate green
slate olive
slate pencil
slate picker
slate purple
slate roof
slate spar
slate splitter
slate writer
slate writing
slate-beveling
slate-brown
slate-color
slate-colored
slate-colour
slate-cutting
slate-formed
slate-pencil
slate-spired
slate-strewn
slate-trimming
slate-violet
slaughter pen
slaughter tree
slaughter-breathing
slaughter-dealing
slaughter-house
slaughter-threatening
slave ant
slave broker
slave clock
slave cylinder
slave dealer
slave dealing
slave driver
slave fork
slave hunt
slave hunter
slave hunting
slave labor
slave labor camp
slave maker
slave market
slave ship
slave song
slave state
slave trade
slave trader
slave trading
slave-carrying
slave-collecting
slave-cultured
slave-deserted
slave-drive
slave-driver
slave-enlarging
slave-got
slave-grown
slave-labor
slave-making
slave-making ant
slave-merchant
slave-owning
slave-peopled
slave-trade
slaver over
slaovo-
slay en masse
sleave silk
sleave-silk
sled cultivator
sled dog
sled harvester
sled knife
sled lister cultivator
sled marker
sled part
sled-log
sledge chair
sledge dog
sledge hammer
sledge-hammer
sleek stone
sleek-browed
sleek-faced
sleek-haired
sleek-headed
sleek-leaf
sleek-looking
sleek-skinned
sleeker-up
sleep around
sleep at your post
sleep drink
sleep in
sleep it off
sleep like a log
sleep like a top
sleep like the dead
sleep movement
sleep movements
sleep of the just
sleep off
sleep on
sleep on a volcano
sleep out
sleep soundly
sleep talker
sleep talking
sleep together
sleep treatment
sleep upon
sleep with
sleep with one eye open
sleep with the Lord
sleep with your ancestors
sleep with your fathers
sleep-at-noon
sleep-bedeafened
sleep-bringer
sleep-bringing
sleep-causing
sleep-compelling
sleep-created
sleep-desiring
sleep-dewed
sleep-dispelling
sleep-disturbing
sleep-drowned
sleep-drunk
sleep-enthralled
sleep-fatted
sleep-fearing
sleep-filled
sleep-heavy
sleep-in
sleep-inducer
sleep-inducing
sleep-inviting
sleep-loving
sleep-procuring
sleep-producer
sleep-producing
sleep-provoker
sleep-provoking
sleep-resisting
sleep-soothing
sleep-stuff
sleep-swollen
sleep-tempting
sleep-walker
sleeper goby
sleeper shark
sleeping around
sleeping bag
sleeping beauty
sleeping car
sleeping carriage
sleeping chair
sleeping disease
sleeping draught
sleeping fire
sleeping partner
sleeping pill
sleeping place
sleeping policeman
sleeping porch
sleeping rent
sleeping room
sleeping sickness
sleeping suit
sleeping table
sleeping together
sleeping with
sleepless eye
sleepy Dick
sleepy disease
sleepy sickness
sleepy-acting
sleepy-eyed
sleepy-eyes
sleepy-headed
sleepy-headedness
sleepy-looking
sleepy-souled
sleepy-sounding
sleepy-voiced
sleet wheel
sleeve axle
sleeve board
sleeve brick
sleeve button
sleeve dog
sleeve link
sleeve links
sleeve nut
sleeve target
sleeve valve
sleeve waistcoat
sleeve-defended
sleeve-hidden
sleigh bed
sleigh bell
sleigh bells
sleigh cutter
sleight of hand
sleight-of-hand
sleight-of-hand artist
sleight-of-hand performer
sleight-of-hand trick
slender as a thread
slender blind snake
slender blue flag
slender loris
slender means
slender-ankled
slender-armed
slender-beaked
slender-billed
slender-bladed
slender-bodied
slender-branched
slender-fingered
slender-finned
slender-flanked
slender-flowered
slender-footed
slender-hipped
slender-jawed
slender-jointed
slender-leaved
slender-legged
slender-limbed
slender-looking
slender-muzzled
slender-nosed
slender-podded
slender-shafted
slender-shouldered
slender-spiked
slender-stalked
slender-stemmed
slender-striped
slender-tailed
slender-toed
slender-trunked
slender-waisted
slender-witted
slenderness ratio
sleuth-hound
slew rope
slew-eyed
slibber-sauce
slice bar
slice galley
slice of life
slice the melon
slice the pie
slice up
slick as a whistle
slick chick
slick citizen
slick down
slick magazine
slick on
slick stone
slick up
slick-ear
slick-faced
slick-haired
slick-looking
slick-spoken
slick-talking
slick-tongued
sliced up
slicker hat
slide back
slide bar
slide block
slide box
slide bridge
slide caliper
slide down
slide fastener
slide film
slide into
slide knot
slide lathe
slide off
slide out of
slide over
slide pole
slide projector
slide rail
slide rest
slide rod
slide rule
slide shaft
slide stacker
slide tongs
slide tool
slide trombone
slide valve
slide viewer
slide-action
slide-easy
slide-groat
slide-rest
slide-rest lathe
slide-rock
slide-rule
slide-rule warfare
slide-valve
slide-valve engine
slide-wire
slide-wire bridge
slider crank
slider-crank chain
sliding board
sliding fit
sliding friction
sliding keel
sliding scale
sliding seat
sliding vector
sliding way
sliding-gear
sliding-scale
sliding-scale premium
slight knowledge
slight over
slight stretching
slight wrong
slight-billed
slight-bottomed
slight-built
slight-esteemed
slight-informed
slight-limbed
slight-looking
slight-made
slight-natured
slight-seeming
slight-shaded
slight-timbered
slim chance
slim down
slim pickings
slim-ankled
slim-built
slim-jim
slim-leaved
slim-limbed
slim-shanked
slim-spired
slim-trunked
slim-waisted
slime eel
slime flux
slime fungus
slime mold
slime mould
slime pit
slime table
slime thickening
slime-begotten
slime-browned
slime-coated
slime-filled
slime-secreting
slime-washed
slimy-backed
sling at
sling cart
sling chair
sling dog
sling hash
sling off
sling psychrometer
sling pump
sling rope
sling stay
sling strap
sling the lead
sling thermometer
sling trot
sling unloader
sling-
slinger ring
slink butcher
slink in
slink lamb
slink off
slip 'twixt cup and lip
slip a cog
slip away
slip back
slip by
slip carriage
slip cheese
slip cloth
slip clutch
slip coach
slip coupling
slip cover
slip curd
slip dock
slip down
slip friction
slip friction clutch
slip gauge
slip glaze
slip grab
slip hook
slip in
slip indicator
slip into
slip jaw
slip joint
slip key
slip kiln
slip knot
slip line
slip mortise
slip noose
slip of the pen
slip of the tongue
slip off
slip on
slip one over on
slip out
slip out of
slip over
slip panel
slip proof
slip rail
slip regulator
slip ring
slip road
slip rope
slip seat
slip shackle
slip share
slip sheet
slip sill
slip skid
slip something over on
slip spring
slip stem
slip stitch
slip stopper
slip stream
slip switch
slip tap
slip the
slip the cable
slip the collar
slip the memory
slip through
slip through your fingers
slip through your hands
slip tongue
slip up
slip ware
slip washer
slip wool
slip you a Mickey
slip you a Mickey Finn
slip your cable
slip your mind
slip-
slip-along
slip-knot
slip-on
slip-rail
slip-ring
slip-sheet
slip-shelled
slip-shoe
slip-skin
slip-slop
slip-stitch
slip-string
slip-tongue wheel
slip-top
slip-up
slip-way
slipcoat cheese
slipe wool
slipped disc
slipped disk
slipped tendon
slipped wing
slipper animalcule
slipper animalcules
slipper bath
slipper block
slipper boat
slipper brake
slipper chair
slipper drag
slipper foot
slipper limpet
slipper orchid
slipper piston
slipper plant
slipper satin
slipper shell
slipper sock
slipper-foxed
slipper-root
slipper-shaped
slippered ease
slippery as an eel
slippery dip
slippery elm
slippery-bellied
slippery-breeched
slippery-looking
slippery-shod
slippery-sleek
slippery-tongued
slipping away
slipping back
slipshod construction
slit band
slit deal
slit lamp
slit pocket
slit skirt
slit tapestry
slit trench
slit-drum
slit-eared
slit-eyed
slit-footed
slit-nosed
slit-shaped
slither off
slitting file
slitting machine
slitting saw
slitting shears
sliver box
slob ice
slob land
slobber over
slobber-chops
stocking stone
sloe gin
sloe plum
sloe thorn
sloe-black
sloe-blue
sloe-colored
sloe-eyed
slog away
slog on
sloop of war
sloop rig
sloop yacht
sloop-rigged
slop around
slop basin
slop book
slow person
slow pile
slow starter
slow time
slow to
slow to act
slow to commit yourself
slow to make your move
slow up
slow-back
slow-belly
slow-blooded
slow-breathed
slow-breathing
slow-breeding
slow-burning
slow-circling
slow-coach
slow-combustion
slow-conceited
slow-consuming age
slow-contact
slow-crawling
slow-creeping
slow-developed
slow-drawing
slow-drawn
slow-driving
slow-ebbing
slow-endavoring
slow-extinguishing
slow-eyed
slow-fingered
slow-foot
slow-footed
slow-gaited
slow-going
slow-growing
slow-legged
slow-march
slow-mettled
slow-motion
slow-moving
slow-paced
slow-poky
slow-run
slow-running
slow-sailing
slow-speaking
slow-speched
slow-spirited
slow-spoken
slow-stepped
slow-sudden
slow-sure
slow-thinking
slow-time
slow-tongued
slow-tuned
slow-up
slow-winged
slow-witted
slow-wittedness
slow-worm
slowed down
slower than the seven-year itch
slowing down
slowness to act
slubber de gullion
slubber over
slubbing billy
slubbing machine
sludge acid
slue rope
slue-footed
slug caterpillar
slug horn
slug snail
slug worm
slug-a-bed
slug-abed
slug-horn
slug-worm
slugging average
slugging machine
slugging match
slugging percentage
sluice box
sluice gate
sluice out
sluice valve
slum clearance
slum-dwellers
slumber party
slumber-bound
slumber-bringing
slumber-closing
slumber-loving
slumber-seeking
slumber-wrapt
slump cone
slump down
slump test
slung shot
slur over
slurp up
slush casting
slush fund
slush lamp
slush-cast
slushing oil
slut's wool
sly dog
sly grog
sly look
sly suggestion
sly-boots
sly-eyed
sly-goose
sly-grog
sly-looking
sly-tongued
sma-boukit
smack boat
smack in the middle
smack into
smack of
smack the lips
smack your lips
smack-dab
smack-dab in the middle
smacking of
small ale
small amount
small arm
small arms
small beer
small boat
small bond
small bower
small boy
small burgh
small business
small businessman
small calorie
small cane
small cap
small capital
small chance
small change
small chop
small circle
small claims court
small clothes
small coal
small cranberry
small debt
small end
small fry
small game
small goods
small ham
small honeysuckle
small hope
small hours
small intestine
small letter
small matter
small number
small octave
small pastern bone
small pica
small place
small potato
small potatoes
small price tag
small print
small royal
small screen
small share
small signal hybrid open circuit
small signal open circuit
small signal short circuit
small slam
small space
small stores
small stuff
small talk
small time
small tradesmen
small voice
small woodbine
small years
small-acred
small-ankled
small-arm
small-armed
small-arms
small-beer
small-billed
small-boat
small-bodied
small-boned
small-bore
small-boyhood
small-boyish
small-brained
small-caliber
small-celled
small-claims court
small-clawed
small-clothes
small-college
small-colleger
small-cornered
small-craft warning
small-crowned
small-debts court
small-diameter
small-drink
small-eared
small-eyed
small-faced
small-feed
small-finned
small-flowered
small-footed
small-framed
small-fruitied
small-fry
small-grain
small-grained
small-habited
small-handed
small-headed
small-hipped
small-horned
small-jointed
small-leaved
small-letter
small-lettered
small-limbed
small-looking
small-lunged
small-minded
small-mindedly
small-mindedness
small-nailed
small-natured
small-paneled
small-paper
small-part
small-pattern
small-petaled
small-pored
small-preferred
small-reasoned
small-scale
small-scaled
small-shelled
small-size
small-sized
small-souled
small-spaced
small-spotted
small-sword
small-tailed
small-talk
small-threaded
small-timbered
small-time
small-timer
small-tired
small-toned
small-tooth
small-toothed
small-topped
small-town
small-towner
small-trunked
small-type
small-visaged
small-visioned
small-ware
small-wheeled
small-windowed
smallmouth bass
smallpox plant
smallpox-proof
smalt green
smalt-blue
smart aleck
smart as a whip
smart ass
smart crack
smart money
smart operator
smart pace
smart saying
smart set
smart-aleck
smart-aleckiness
smart-alecky
smart-ass
smart-built
smart-cocked
smart-dressing
smart-looking
smart-money
smart-spoken
smart-stinging
smart-talking
smart-tongued
smart-witted
smarten up
smarty-pants
smash all opposition
smash hit
smash in
smash into
smash piecer
smash the atom
smash up
smash-and-grab
smash-up
smashboard signal
smasher hammer
smasher hat
smashing defeat
smashing machine
smattering of ignorance
smattering of knowledge
smear campaign
smear culture
smear dab
smear dock
smear on
smear test
smear ware
smear word
smear-dab
smear-sheet
smegma bacillus
smell a rat
smell around
smell bad
smell good
smell in the wind
smell of
smell of decay
smell of the lamp
smell out
smell sweet
smell to heaven
smell to high heaven
smell up
smell-feast
smell-less
smell-lessness
smell-smock
smeller-out
smelling bottle
smelling salts
smelling-stick
smelt-
smick-smack
smick-smock
smiddy-leaves
smilax family
smile at
smile brightly
smile of recognition
smile upon
smile-covering
smile-frowning
smile-tuned
smile-wreathed
smileage book
smiled-out
smiles of fortune
smiling reception
smiling sleep
smiling wakerobin
smite hip and thigh
smiting coal
smithing coal
smithy coal
smiting line
smitten with
smitten with death
smock frock
smock marriage
smock mill
smock windmill
smock-faced
smock-frock
smock-frocked
smoke agent
smoke arch
smoke ball
smoke blue
smoke bomb
smoke cat
smoke chamber
smoke curtain
smoke dome
smoke explosion
smoke gray
smoke grenade
smoke helmet
smoke hole
smoke jumper
smoke kiln
smoke like a chimney
smoke like a furnace
smoke out
smoke passage
smoke pipe
smoke plant
smoke pot
smoke proof
smoke quartz
smoke rocket
smoke room
smoke sail
smoke screen
smoke shelf
smoke shop
smoke stop
smoke talk
smoke the pipe of peace
smoke tree
smoke washer
smoke-ball
smoke-begotten
smoke-black
smoke-bleared
smoke-blinded
smoke-blue
smoke-bound
smoke-brown
smoke-burning
smoke-colored
smoke-condensing
smoke-consuming
smoke-consummptive
smoke-cure
smoke-curing
smoke-dried
smoke-dry
smoke-drying
smoke-dyed
smoke-eater
smoke-eating
smoke-enrolled
smoke-exhaling
smoke-filled
smoke-filled room
smoke-gray
smoke-grimed
smoke-hole
smoke-jack
smoke-laden
smoke-oh
smoke-paint
smoke-pennoned
smoke-preventing
smoke-preventive
smoke-selling
smoke-smothered
smoke-sodden
smoke-stack
smoke-stained
smoke-torn
smoke-vomiting
smoke-wreathed
smoke-yellow
smoked glass
smoked glasses
smoked herring
smoked rubber
smokeless powder
smokeless powder rocket
smokeless zone
smoking bean
smoking car
smoking compartment
smoking concert
smoking duck
smoking habit
smoking hot
smoking jacket
smoking lamp
smoking opium
smoking room
smoking stand
smoking tobacco
smoking-concert
smoking-room
smoky quartz
smoky topaz
smoky-bearded
smoky-blue
smoky-colored
smoky-flavored
smoky-looking
smoky-smelling
smoky-tinted
smoky-waving
smoldering fire
smoot hole
smooth as a baby’s ass
smooth as a billiard ball
smooth as glass
smooth bore
smooth breathing
smooth citizen
smooth coat
smooth down
smooth flounder
smooth hound
smooth it over
smooth muscle
smooth out
smooth over
smooth plane
smooth road
smooth sailing
smooth snake
smooth sumac
smooth surface
smooth talker
smooth temper
smooth the path
smooth the road
smooth the ruffled brow of care
smooth the way
smooth the way for
smooth wine
smooth winterberry
smooth your feathers
smooth your ruffled
smooth-ankled
smooth-barked
smooth-bedded
smooth-bellied
smooth-billed
smooth-bodied
smooth-browed
smooth-cast
smooth-cheeked
smooth-chinned
smooth-clouded
smooth-coated
smooth-coil
smooth-combed
smooth-core
smooth-crested
smooth-cut
smooth-dittied
smooth-edged
smooth-face
smooth-faced
smooth-famed
smooth-fibered
smooth-finned
smooth-flowing
smooth-foreheaded
smooth-fronted
smooth-fruitied
smooth-gliding
smooth-going
smooth-grained
smooth-haired
smooth-handed
smooth-headed
smooth-hewn
smooth-leaved
smooth-legged
smooth-limbed
smooth-looking
smooth-necked
smooth-nosed
smooth-paced
smooth-plastered
smooth-podded
smooth-polished
smooth-riding
smooth-rimmed
smooth-rinded
smooth-rubbed
smooth-running
smooth-sculptured
smooth-shaven
smooth-sided
smooth-skinned
smooth-sliding
smooth-soothing
smooth-sounding
smooth-speaking
smooth-spoken
smooth-stalked
smooth-stemmed
smooth-surfaced
smooth-tailed
smooth-taper
smooth-taper drift
smooth-tempered
smooth-textured
smooth-tined
smooth-tired
smooth-tongued
smooth-voiced
smooth-walled
smooth-winding
smooth-winged
smooth-working
smooth-woven
smooth-writing
smooth-wrought
smoothback flounder
smoothbore gun
smoothbore weapon
smoothed out
smoother-over
smoothhound shark
smoothing box
smoothing iron
smoothing mill
smoothing of the way
smoothing plane
smother crop
smother fire
smother fly
smother-kiln
smothered mate
smudge fire
smudge pot
smug-faced
smug-looking
smug-skinned
smuggle in
smuggled goods
smut ball
smut fungus
smut gall
smut grass
smut mill
smut-free
smutty-faced
smutty-nosed
smutty-yellow
snack bar
snack stool
snack table
snaffle bit
snaffle-bridled
snaffle-mouthed
snaffle-reined
snag boat
snag tooth
snag tree
snaggle-toothed
snail bore
snail borer
snail cloud
snail clover
snail countersink
snail fever
snail horn
snail medic
snail plant
snail shell
snail trefoil
snail wheel
snail's pace
snail-horned
snail-like
snail-likeness
snail-paced
snail-seed
snail-shell
snail-slow
snake bearer
snake bite
snake blenny
snake boat
snake buzzard
snake cactus
snake cane
snake charmer
snake crane
snake cucumber
snake dance
snake doctor
snake eel
snake eggplant
snake eyes
snake feeder
snake fence
snake fern
snake fly
snake foot
snake gentian
snake gourd
snake guide
snake hole
snake idol
snake in the grass
snake juice
snake killer
snake leaf
snake lily
snake line
snake mackerel
snake medicine
snake melon
snake moss
snake nut
snake oil
snake palm
snake pit
snake star
snake violet
snake wire
snake worship
snake worshiper
snake's head
snake's-head
snake-bitten
snake-bodied
snake-devouring
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-haired
snake-headed
snake-hipped
snake-killing
snake-like
snake-milk
snake-necked
snake-plantain
snake-set
snake-shaped
snake-skin
snake-tressed
snake-wanded
snake-weed
snake-wigged
snake-winged
snake-wood
snakebite remedy
snakehead mullet
snakemouth pogonia
snakes and ladders
snakes in the boots
snaky-eyed
snaky-haired
snaky-handed
snaky-headed
snaky-paced
snaky-sparkling
snaky-tailed
snaky-wreathed
snap at
snap back
snap bean
snap beetle
snap brim
snap bug
snap cap
snap catch
snap clutch
snap decision
snap fastener
snap flask
snap gauge
snap header
snap hook
snap judgment
snap link
snap lock
snap machine
snap molder
snap molding
snap out
snap out of it
snap point
snap ring
snap roll
snap shooter
snap shooting
snap shot
snap switch
snap table
snap the thread
snap the whip
snap to it
snap tool
snap turtle
snap up
snap vote
snap willow
snap your fingers
snap your fingers at
snap your head off
snap your nose off
snap-
snap-apple
snap-brim
snap-brim hat
snap-brimmed
snap-finger
snap-hook
snap-on
snap-rivet
snap-roll
snap-shot
snap-top
snap-top table
snaphead rivet
snapper up
snapper-back
snapper-up
snapping beetle
snapping point
snapping tool
snapping turtle
snappy comeback
snappy pace
snare drum
snare strainer
snarl defiance
snarl up
snarl-up
snarled up
snarling iron
snatch at
snatch block
snatch from
snatch from the jaws of death
snatch hitch
snatch team
snatch-
snaw-broo
sneak attack
sneak boat
sneak box
sneak current
sneak in
sneak off
sneak out
sneak out of
sneak preview
sneak shooting
sneak thief
sneak thievery
sneak through
sneak-
sno-cat
snob appeal
snooker pool
snore hole
snore piece
snorkel diver
snorkel diving
snorkel pen
snort at
snot-rag
snotnose kid
snotty-nosed
snout beetle
snout butterfly
snout machine
snout mite
snout moth
snow apple
snow banner
snow bear
snow bed
snow blanket
snow blast
snow blindness
snow board
snow boot
snow bunting
snow buttercup
snow chains
snow chukor
snow cock
snow cover
snow crust
snow cup
snow devil
snow dust
snow eater
snow eyes
snow fence
snow field
snow finch
snow flea
snow flurry
snow fly
snow gem
snow glare
snow glory
snow gnat
snow goggles
snow goose
snow grains
snow grass
snow ground
snow grouse
snow guard
snow gum
snow hut
snow ice
snow in
snow insect
snow job
snow knife
snow leopard
snow light
snow lily
snow limit
snow line
snow mold
snow mosquito
snow mouse
snow one under
snow owl
snow panther
snow partridge
snow pea
snow peak
snow pear
snow pellets
snow pheasant
snow pigeon
snow plant
snow plume
snow poppy
snow pudding
snow quail
snow rack
snow roller
snow rose
snow rosette
snow scale
snow sheen
snow sleep
snow slope
snow slush
snow smoke
snow snake
snow squall
snow stake
snow stream
snow tire
snow track
snow train
snow tree
snow trillium
snow tyre
snow under
snow vine
snow vole
snow water
snow white
snow wreath
snow-barricaded
snow-bearded
snow-beaten
snow-beater
snow-besprinkled
snow-blanketed
snow-blind
snow-blinded
snow-blown
snow-bright
snow-brilliant
snow-broth
snow-capped
snow-casting
snow-choked
snow-clad
snow-clearing
snow-climbing
snow-cold
snow-colored
snow-covered
snow-crested
snow-crowned
snow-crystal
snow-deep
snow-drifted
snow-driven
snow-dropping
snow-drowned
snow-encircled
snow-fair
snow-feathered
snow-fed
snow-haired
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
snow-mantled
snow-melting
snow-molded
snow-nodding
snow-on-the-mountain
snow-plough
snow-pure
snow-resembled
snow-rigged
snow-robed
snow-rubbing
snow-scarred
snow-slip
snow-soft
snow-sprinkled
snow-still
snow-swathe
snow-sweeping
snow-thrower
snow-tipped
snow-topped
snow-white
snow-whitened
snow-whiteness
snow-winged
snow-wrought
snowball bush
snowball tree
snowclad peak
snowdrop anemone
snowdrop tree
snowdrop windflower
snowed-in
snowflower tree
snows of yesteryear
snowshoe hare
snowshoe rabbit
snowy egret
snowy owl
snowy-banded
snowy-bosomed
snowy-capped
snowy-countenanced
snowy-fleeced
snowy-flowered
snowy-headed
snowy-vested
snowy-winged
snub line
snub post
snub-
snub-nosed
snubbing post
snuff bottle
snuff brown
snuff brush
snuff color
snuff dipper
snuff dipping
snuff in
snuff it
snuff maker
snuff mill
snuff mull
snuff out
snuff paper
snuff shop
snuff stick
snuff swab
snuff up
snuff-box
snuff-clad
snuff-colored
snuff-headed
snuff-stained
snuff-taking
snuff-using
snuffbox bean
snuffbox fern
snuffing out
snug as a bug in a rug
snug down
snug harbor
snug together
snug up
snuggle up to
so as
so as to
so be it
so big
so bold
so cold you could spit ice cubes
so far
so far as
so far as you can
so far so good
so forget yourself
so help me
so is it
so it is
so long
so long as
so long as it's red
so many
so mote it be
so much
so much as
so much for that
so shall it be
so so
so that
so to say
so to speak
so very much
so what
so what else is new
so-and-so
so-and-sos
so-called
so-caused
so-conditioned
so-considered
so-designated
so-fa syllables
so-formed
so-forth
so-ho
so-instructed
so-like
so-named
so-regarded
so-seeming
so-so
so-soish
so-styled
so-termed
so-titled
so-wise
soak Austral
soak hole
soak in
soak up
soaking furnace
soaking pit
soaking rain
soaking through
soaking wet
soaking-up
soap apple
soap ashes
soap box
soap box derby
soap brick
soap bubble
soap bulb
soap copper
soap dish
soap earth
soap flakes
soap fruit
soap gentian
soap nut
soap opera
soap orange
soap pad
soap plant
soap pod
soap powder
soap stone
soap test
soap the ways
soap tree
soap-boiler
soap-bubble
soap-fast
soap-maker
soapbark tree
soapberry family
soapberry tree
soapbox derby
soapbox orator
soapwort gentian
soar falcon
soar hawk
soaring costs
soaring heights
soaring plane
soaring prices
sob sister
sob story
sob stuff
sobe it
sober as a judge
sober down
sober fact
sober off
sober reality
sober senses
sober up
sober-blooded
sober-clad
sober-disposed
sober-eyed
sober-headed
sober-headedness
sober-minded
sober-mindedly
sober-mindedness
sober-sad
sober-spirited
sober-suited
sober-tinted
soccer ball
soccer field
sociable coach
sociable person
social Darwinism
social Darwinist
social accounting
social activity
social affair
social anthropologist
social anthropology
social assistance
social barrier
social bee
social call
social circle
social class
social climber
social climbing
social code
social compact
social conduct
social conscience
social consciousness
social contract
social control
social convention
social critic
social dancer
social dancing
social democracy
social democrat
social differentiation
social director
social discrimination
social disease
social disorganization
social distance
social drinker
social drinking
social environment
social ethics
social evolution
social full-dress uniform
social gathering
social gospel
social grace
social graces
social grouping
social heritage
social incompatibility
social insurance
social interaction
social intercourse
social isolation
social lion
social lubricant
social maladjustment
social organization
social outcast
social parasite
social pathology
social pressure
social procedures
social process
social psychiatry
social psychology
social realism
social realist
social register
social relations
social round
social science
social scientist
social season
social secretary
social security
social service
social services
social set
social settlement
social studies
social usage
social wasp
social welfare
social whirl
social work
social worker
social-climbing
social-minded
social-mindedly
social-mindedness
social-service
socialist economy
socialistic economy
socialized medicine
socially incompatible
socially prominent
society evil
society goods
society queen
society screw
society verse
socio-
socio-economic
socio-official
sociological adjutive reactions
sociological novel
socius criminis
sock away
sock in
sock lamb
sock lining
sock suspender
sock suspenders
socket basket
socket chisel
socket eye
socket pole
socket punch
socket screw
socket spanner
socket washer
socket wrench
sockeye salmon
sod cloth
sod culture
sod grass
sod house
sod mulch
sod off
sod oil
sod plow
sod webworm
sod-bound
sod-build
sod-cutting
sod-forming
sod-roofed
soda alum
soda ash
soda ball
soda biscuit
soda bread
soda cracker
soda crystals
soda feldspar
soda fountain
soda jerk
soda lake
soda lime
soda lye
soda mesolite
soda mica
soda niter
soda nitre
soda plant
soda pop
soda pulp
soda saleratus
soda siphon
soda soap
soda waste
soda water
soda-granite
soda-lime
soda-lime feldspar
soda-potash
soda-potash feldspar
sodalite-syenite
sodden-faced
sodden-headed
sodden-minded
sodden-witted
sodio-
sodium acetate
sodium acid car
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium bborate
sodium bicarbonate
sodium bichromate
sodium bisulphate
sodium bisulphite
sodium borate
sodium bromide
sodium carbonate
sodium carbonite
sodium chlorate
sodium chloride
sodium citrate
sodium cyanide
sodium cyclamate
sodium cyclohexylsulfamate
sodium dicarbonate
sodium dichromate
sodium dioxide
sodium dithionate
sodium dithionate
sodium ethoxide
sodium ethylate
sodium fluoride
sodium fluoroacetate
sodium glutamate
sodium hydrate
sodium hydrosulfite
sodium hydrosulphide
sodium hydrosulphite
sodium hydroxide
sodium hypochlorite
sodium hyposulphite
sodium iodide
sodium lamp
sodium light
sodium meta-arsenite
sodium methoxide
sodium methylate
sodium monoxide
sodium nitrate
sodium nitrite
sodium nitroprusside
sodium oxide
sodium pentothal
sodium perborate
sodium peroxide
sodium phosphate
sodium polysulfide
sodium propionate
sodium pump
sodium pyroborate
sodium salicylate
sodium silicate
sodium stearate
sodium suing agent
sodium sulfate
sodium sulfide
sodium sulfite
sodium sulphate
sodium sulphide
sodium sulphite
sodium sulphhydrate
sodium tetrabor
sodium tetraborate
sodium thiocyanate
sodium thiopental
sodium thiosulfate
sodium thiosulphate
sodium tungstate
sodium-vapor
soft ray
soft roe
soft roll
soft rot
soft scale
soft sell
soft shoulder
soft sign
soft sleep
soft soap
soft solder
soft spot
soft spot in your heart
soft tick
soft tongue
soft touch
soft tube
soft voice
soft water
soft wheat
soft wood
soft words
soft-armed
soft-backed
soft-bedded
soft-bellied
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodied
soft-boil
soft-boiled
soft-bone
soft-bosomed
soft-bound book
soft-breathed
soft-bright
soft-brushing
soft-centred
soft-circling
soft-coal
soft-coated
soft-colored
soft-conched
soft-conscienced
soft-core pornography
soft-cored
soft-couched
soft-cover
soft-dressed
soft-ebbing
soft-embodied
soft-extended
soft-eyed
soft-feathered
soft-feeling
soft-fingered
soft-finished
soft-finned
soft-flecked
soft-fleshed
soft-flowing
soft-focus
soft-foliaged
soft-footed
soft-footedly
soft-glazed
soft-going
soft-ground
soft-ground etching
soft-hairied
soft-handed
soft-head
soft-headed
soft-headedness
soft-hearted
soft-heartedly
soft-heartened
soft-hued
soft-laid
soft-leaved
soft-lucent
soft-mannered
soft-mettled
soft-minded
soft-murmuring
soft-natured
soft-nosed
soft-paced
soft-pale
soft-palmed
soft-paste
soft-paste porcelain
soft-pated
soft-pedal
soft-pedaled
soft-pedaling
soft-pedalled
soft-pedalling
soft-rayed
soft-roasted
soft-rock geology
soft-sawder
soft-sawderer
soft-sealed
soft-shell
soft-shell clam
soft-shell crab
soft-shelled
soft-shelled turtle
soft-shining
soft-shoe
soft-shoe dancing
soft-shouldered
soft-sighing
soft-silken
soft-skinned
soft-sleping
soft-sliding
soft-slow
soft-smiling
soft-soap
soft-soaper
soft-soaping
soft-solder
soft-soothing
soft-sounding
soft-speaking
soft-spirited
soft-spleened
soft-spoken
soft-spread
soft-spun
soft-steel
soft-swelling
soft-tailed
soft-tanned
soft-tempered
soft-throbbing
soft-timbered
soft-tinted
soft-toned
soft-tongued
soft-treading
soft-voiced
soft-wafted
soft-warbling
soft-water
soft-whispering
soft-winged
soft-witted
soft-wooded
soft-yielding
softblowing wind
soften the blow
soften up
softening of the brain
softening point
softening-up
softer sex
softwood tree
soi-disant
soil bank
soil binder
soil cap
soil cement
soil chemistry
soil conditioner
soil conservation
soil mechanics
soil miller
soil mulch
soil pipe
soil profile
soil rot
soil science
soil scientist
soil sickness
soil stack
soil stain
soil survey
soil-bank
soil-bound
soil-freesoilage
soiling crop
soixante-neuf
soixante-quinze
soja bean
soja-bean oil
soke reeve
sol-fa
sol-fa exercise
sol-fa syllables
sol-faed
sol-faer
sol-faing
sol-faist
sol-lunar
sola topee
solan goose
solar X-ray counter
solar X-ray detector
solar apex
solar battery
solar cell
solar chariot
solar constant
solar corona
solar day
solar eclipse
solar ecliptic
solar engine
solar flare
solar furnace
solar gamma ray counter
solar halo
solar heat
solar heater
solar heating
solar house
solar machine
solar mirror
solar month
solar myth
solar particle
solar physicist
solar physics
solar plexus
solar power
solar prominence
solar rays
solar spectrum
solar still
solar system
solar telegraph
solar therapy
solar tide
solar time
solar ultraviolet detector
solar wind
solar year
solar
sold on
solder nipple
soldering bolt
soldering copper
soldering gun
soldering iron
soldering nipple
soldering paste
soldering torch
soldering union
soldering wig
soldier ant
soldier beetle
soldier bug
soldier course
soldier crab
soldier fly
soldier of fortune
soldier on
soldier orchid
soldier orchis
soldier palmer
soldier sprag
soldier suit
soldier turtle
soldier's heart
soldier's medal
soldier-crab
soldier-fashion
soldier-mad
soldierly quality
soldierly virtues
soldiers' home
sole blocker
sole corporation
sole cutter
sole sewer
sole sorter
sole stamper
sole tile
sole trader
sole tree
sole-beating
sole-begotten
sole-beloved
solenoid brake
solent goose
solera sherry
solferino red
soli-deo
solicit advice
solicit attention
solicit votes
solicitor general
solicitors general
solid angle
solid as a rock
solid body
solid bottom
solid comfort
solid fuel
solid geometry
solid ground
solid injection
solid of revolution
solid propellant
solid rock
solid solution
solid-billed
solid-bronze
solid-browed
solid-color
solid-colored
solid-drawn
solid-fronted
solid-fuel rocket
solid-full
solid-gold
solid-headed
solid-hoofed
solid-horned
solid-injection
solid-ink
solid-ivory
solid-looking
solid-ported
solid-seeming
solid-set
solid-silver
solid-state
solid-state device
solid-state physics
solid-tired
solidus curve
solitary bee
solitary confinement
solitary person
solitary sandpiper
solitary vireo
solitary wasp
solo dancer
solo dancing
solo flight
solo grand
solo organ
solo part
solo stop
solo whist
solomon's seal
solomon-gundy
solstitial colure
solubility product
soluble RNA
soluble glass
solution plane
solution pressure
solution set
solution tension
solution-proof
solvate theory
solvay process
solvent naphtha
soma plant
somat-
somatic cell
somatic death
somatization reaction
somato-
somber-clad
somber-colored
somber-looking
somber-minded
somber-seeming
somber-toned
some fine day
some fine morning
some five or six
some hope
some of these days
some one
some such way
some sweet day
some time ago
some time back
some time since
some way
somehow or another
somehow or other
someplace or other
something awful
something between
something between the lines
something comfortable
something else
something else again
something extra
something fierce
something for good measure
something for something
something in hand
something in reserve
something in return
something like
something missing
something of value
something or other
something out of your system
something special
something terrible
something to be desired
something to brag about
something to chew on
something to fall back on
something to get your teeth into
something to shout about
something to spare
something to write home about
 sometime or other
sometimes and sometimes not
somewhere about
somewhere else
somewhere near
somn-
somnambul-
somnambulistic hypnosis
somni-
son and heir
son et lumiere
son of Adam
son of God
son of a bitch
son of a gun
son of the sable night
son of the soil
son-in-law
son-in-lawship
sonata allegro
sonata form
sonata-allegro
sonder yacht
song and dance
song and dance man
song box
song cycle
song form
song hit
song leader
song maker
song making
song of the Sirens
song sparrow
song thrush
song writer
song writing
song-and-dance
song-and-dance act
song-bird
song-book
song-fraught
song-play
song-school
song-singing
song-smith
song-timed
song-tuned
song-worthy
sonic barrier
sonic boom
sonic depth finder
sonic depth sounder
sonic mine
sonic speed
sonic wall
sonnet sequence
sonny boy
sonority syllable
sons of Belial
sons of Martha
sons of guns
sons of men
sons of the devil
sons-in-law
soogee-moogee
soola clover
soon enough
soon-believing
soon-choked
soon-clad
soon-consoled
soon-contented
soon-descending
soon-done
soon-drying
soon-ended
soon-fading
soon-known
soon-mended
soon-monied
soon-parted
soon-quenched
soon-repeated
soon-repenting
soon-rotting
soon-said
soon-sated
soon-speeding
soon-tired
soon-wearied
sooner or later
sooner than
soot black
soot bodies
soot brown
soot dew
soot-bespeckled
soot-black
soot-bleared
soot-colored
soot-dark
soot-fall
soot-grimed
soot-smutched
soot-sowing
soothing syrup
soothing words
sooty black
sooty blotch
sooty mold
sooty mould
sooty tern
sooty-faced
sooty-mouthed
sooty-planed
sop to Cerberus
sop up
sophistic syllogism
sophistical reasoning
sopping wet
soprano clef
soprano part
sops-in-wine
sora rail
sorb apple
sorb tree
sorb-apple
sorbic acid
sorbo rubber
sore beset
sore disappointment
sore head
sore mouth
sore point
sore pressed
sore shin
sore spot
sore throat
sore-backed
sore-beset
sore-dreaded
sore-eyed
sore-footed
sore-head
sore-pressed
sore-pressedsore-taxedsore-taxed
sore-toed
sore-tried
sore-vexed
sore-wearied
sore-won
sore-worn
soredi-
sorely disappointed
sorely pressed
sorghum brown
sorghum midge
sorghum smut
sorority girl
sorority house
sorority woman
sorrel dock
sorrel family
sorrel salt
sorrel tree
sorrel vine
sorrow for
sorrow over
sorrow with
sorrow-beaten
sorrow-blinded
sorrow-bound
sorrow-breathing
sorrow-breeding
sorrow-bringing
sorrow-burdened
sorrow-ceasing
sorrow-closed
sorrow-clouded
sorrow-daunted
sorrow-furrowed
sorrow-healing
sorrow-laden
sorrow-melted
sorrow-parted
sorrow-ripening
sorrow-seasoned
sorrow-seeing
sorrow-sharing
sorrow-shot
sorrow-shrunken
sorrow-sick
sorrow-sighing
sorrow-sobbing
sorrow-streaming
sorrow-stricken
sorrow-struck
sorrow-tired
sorrow-torn
sorrow-wasted
sorrow-worn
sorrow-wounded
sorrow-wreathen
sorrowful tree
sorry for yourself
sorry lot
sorry plight
sorry-flowered
sorry-looking
sort of
sort out
sort with
sorter-out
sortes Biblicae
sortes Homericae
sortes Praenestinae
sortes Vergilianae
sorting boom
sorting jack
sorting out
sorting tracks
sorting yard
sostenuto pedal
sostinente pianoforte
sot on
sot-weed
sothic cycle
sotto voce
sou markee
sou marqu
sou'-west
sou-sou
sou-southerly
souari nut
souari-nut
souari-nut family
soubise sauce
soufriere bird
sought-after
soul bell
soul blindness
soul body
soul cake
soul curer
soul deafness
soul food
soul house
soul in glory
soul kiss
soul mate
soul mates
soul of kindness
soul of the dead
soul scat
soul scot
soul shot
soul silver
soul sleep
soul sleeper
soul-adorning
soul-amazing
soul-benumbed
soul-blind
soul-blinded
soul-blindness
soul-boiling
soul-born
soul-burdened
soul-charming
soul-choking
soul-cloying
soul-conceived
soul-confirming
soul-confounding
soul-converting
soul-corrupting
soul-damning
soul-deep
soul-delighting
soul-destroying
soul-devouring
soul-diseased
soul-dissolving
soul-driver
soul-enchanting
soul-ennobling
soul-enthraling
soul-fatting
soul-fearing
soul-felt
soul-forsaken
soul-fostered
soul-frighting
soul-galled
soul-gnawing
soul-harrowing
soul-humble
soul-illuminated
soul-imitating
soul-infused
soul-killing
soul-kiss
soul-loving
soul-mass
soul-moving
soul-murdering
soul-numbing
soul-pained
soul-piercing
soul-pleasing
soul-racking
soul-raising
soul-ravishing
soul-rending
soul-reviving
soul-sapping
soul-satisfying
soul-saving
soul-scot
soul-searching
soul-shaking
soul-shot
soul-sick
soul-sickening
soul-sickness
soul-sinking
soul-slaying
soul-stirring
soul-subduing
soul-sunk
soul-sure
soul-sweet
soul-tainting
soul-thralling
soul-tiring
soul-tormenting
soul-vexed
soul-wise
soul-wounded
soul-wounding
souls in hell
sound a fanfare
sound a knell
sound a retreat
sound a sour note
sound a tattoo
sound an alarm
sound and fury
sound area
sound as a dollar
sound asleep
sound barrier
sound block
sound boarding
sound bone
sound booth
sound bow
sound box
sound cage
sound camera
sound carrier
sound change
sound channel
sound chest
sound compensation
sound control
sound critical judgment
sound director
sound economy
sound effect
sound effects
sound evidence
sound field
sound figures
sound film
sound frequency
sound gate
sound harshly
sound head
sound hole
sound in the ear
sound in tune
sound in wind and limb
sound intensity
sound intensity level
sound judgment
sound knot
sound law
sound lens
sound like
sound limiter
sound line
sound man
sound mind
sound mixer
sound money
sound monitor
sound motion picture
sound of mind and body
sound of trumpets
sound off
sound out
sound pendulum
sound perimeter
sound picture
sound post
sound pressure
sound projector
sound proof
sound propagation
sound ranging
sound reasoning
sound recorder
sound recording
sound reproduction system
sound screen
sound sense
sound shadow
sound shift
sound shifting
sound shrill
sound similar
sound sleep
sound slidefilm
sound spectrogram
sound spectrograph
sound stage
sound taps
sound the alarm
sound the death knell of
sound the horn
sound the keynote
sound the note of preparation
sound the praises of
sound the tocsin
sound the trumpet
sound together
sound track
sound truck
sound true
sound understanding
sound units
sound wave
sound wormy
sound-absorbing
sound-absorbing material
sound-board
sound-conducting
sound-effects man
sound-exulting
sound-group
sound-hole
sound-judging
sound-level data
sound-making
sound-minded
sound-mindedness
sound-on-film
sound-post
sound-powered telephone
sound-producing
sound-ranging altimeter
sound-sensed
sound-set
sound-sleeping
sound-stated
sound-stilling
sound-sweet
sound-thinking
sound-winded
sound-witted
sounding balloon
sounding block
sounding board
sounding bottle
sounding harsh
sounding lead
sounding line
sounding machine
sounding out
sounding post
sounding rocket
sounding rod
sounding stop
sounding tube
sounding-board
sounding-lead
sounding-line
soundness of doctrine
soundness of judgment
soundness of mind
soundproofing insulation
soup bowl
soup cup
soup house
soup kitchen
soup maigre
soup plate
soup shop
soup stock
soup up
soup's on
soup-and-fish
soup-fin shark
soup-strainer
souple silk
sour as vinegar
sour ball
sour balls
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
sour milk
sour note
sour orange
sour pickle
sour salt
sour thing
sour-blooded
sour-breathed
sour-complexioned
sour-dough
sour-eyed
sour-faced
sour-featured
sour-headed
sour-looked
sour-looking
sour-natured
sour-sap
sour-sap disease
sour-smelling
sour-sop
sour-sweet
sour-tasted
sour-tasting
sour-tempered
sour-tongued
sour-visaged
source book
source material
source of aesthetic delight
source of aesthetic pleasure
source of light
source of supply
source program
sourdough bread
soured cream
sous-
sous-lieutenant
sous-prefect
south about
south african
south by east
south by west
south country
south pole
south sea
south wind
south-
south-blowing
south-borne
south-east
south-easterly
south-eastern
south-eastward
south-facing
south-following
south-preceding
south-seaman
south-seeking
south-side
south-south-east
south-south-west
south-southeast
south-southeasterly
south-southeastward
south-southerly
south-southwest
south-southwesterly
south-southwestward
south-southwestwardly
south-west
south-wester
south-westerly
south-western
south-westward
south-westwardly
southeast by east
southeast by south
southerly burster
southerly buster
southern cane
southern crab apple
southern cross
southern crown
southern cypress
southern dewberry
southern english
southern hemisphere
southern lights
southern magnolia
southern right whale
southern studfish
southern toad
southwest by south
southwest by west
soutien-gorge
souvenir book
souvenir day
souvenir hunter
souvenir sheet
souvenir spoon
sovereign contempt
sovereign nation
sovereign nationhood
sovereign pontiff
sovereign princess
sovereign queen
sovereign remedy
sovereign state
sovereign statehood
sow block
sow broadcast
sow bug
sow chaos
sow disorder
sow dissension
sow fennel
sow gapeseed
sow grass
sow the sand
sow the seed
sow the seeds of
sow thistle
sow your wild oats
sow-back
sow-bread
sow-bug
sow-gelder
sow-metal
sow-pig
sow-thistle
sow-tit
sower type
sowing with salt
soy flour
soy frame
soy pea
soy sauce
soya bean
soya sauce
soya-bean oil
soybean fibers
soybean oil
soyez le bienvenu
sp gr
sp ht
spa-water
space age
space airport
space bar
space between
space bullets
space capsule
space centrode
space charge
space crew
space curvature
space curve
space dock
space docking
space doctor
space engineering
space error
space exploration
space factor
space fiction
space flight
space formula
space frame
space group
space hazard
space heater
space heating
space helmet
space island
space isomerism
space key
space laboratory
space lat
space lattice
space line
space linkage
space man
space mark
space medicine
space mirror
space motion
space navigation
space observatory
space opera
space out
space perception
space platform
space probe
space probes
space quadrature
space rate
space ratio
space research
space rocket
space rule
space satellite
space science
space shuttle
space stage
space station
space suit
space technology
space telegraphy
space telephony
space terminal
space travel
space traveler
space variation
space velocity
space walk
canoe washer
canoe writer
canoe-bar
canoe-charge effect
canoe-crammed
canoe-embosomed
canoe-filling
canoe-lattice
canoe-occupying
canoe-penetrating
canoe-pervading
canoe-piercing
canoe-polar
canoe-saving
canoe-spread
canoe-thick
canoe-time
canoe-time continuum
canoe-traveling
canoe-world
canoeed out
canoeed-antenna direction finder
canoeed-loop direction finder
canoeed-out
canoeport station
canoeing Telegraphy
canoeous mind
canoeous of mind
canoepling compound
canoe bayonet
canoe beard
canoe cassino
canoe convention
canoe face
canoe foot
canoe graft
canoe grass
canoe guinea
canoe handle
canoe iron
canoe lug
canoe maker
canoe money
canoe press
canoe rudder
canoe-beard
canoe-bearded
spanish omelet
spanish paprika
spanish rice
spank along
spanker boom
spanker gaff
spanker peak halyard
spanker sheet
spanker vang
spanking new
spanking pace
spanking wind
spanking-new
spanner wrench
spanner-tight
spar bridge
spar buoy
spar ceiling
spar deck
spar down
spar torpedo
spar tree
spar varnish
spar-deck vessel
spar-decked
spar-decker
spare a thought for
spare diet
spare no effort
spare no expense
spare no pains
spare nothing
spare room
spare the price
spare the rod
spare time
spare tire
spare tyre
spare-bodied
spare-built
spare-fed
spare-handed
spare-handedly
spare-looking
spare-rib
spare-set
spare-time
spare-time activity
sparge pipe
sparing of words
sparingness of words
spark advance
spark arrester
spark chamber
spark coil
spark condenser
spark discharge
spark frequency
spark gap
spark generator
spark instant
spark knock
spark lead
spark lever
spark micrometer
spark of life
spark off
spark plug
spark potential
spark spectrum
spark transmission
spark transmitter
spark-over
spark-plug
spark-plug wrench
sparked-back
sparking lamp
sparking plug
sparking points
sparking voltage
sparkle metal
sparkle-blazing
sparkle-drifting
sparkle-eyed
sparkling Burgundy
sparkling synchysis
sparkling water
sparkling wine
sparling fowl
sparring mate
sparring partner
sparrow dust
sparrow hawk
sparrow owl
sparrow pecking
sparrow-bill
sparrow-billed  
sparrow-blasting  
sparrow-colored  
sparrow-footed  
sparrow-hawk  
sparrow-tail  
sparrow-tailed  
sparrow-witted  
sparse-flowered  
spart grass  
spasm band  
spasm of terror  
spastic colon  
spastic paralysis  
spatch-cock  
spate of words  
spatial extension  
spatling poppy  
spatter cone  
spatter dash  
spatter pipe  
spatting stick  
spatulate-leaved  
spawn brick  
spawn fungus  
speak about  
speak at length  
speak before you think  
speak by the book  
speak by the card  
speak drunkenly  
speak faintly  
speak fair  
speak falsely  
speak for  
speak for Buncombe  
speak for itself  
speak highly of  
speak ill of  
speak ill of behind your back  
speak imperfectly  
speak in high terms of  
speak in privacy  
speak in riddles  
speak in tongues  
speak incoherently  
speak inopportunely  
speak one's mind
speak one's piece
speak out
speak plainly
speak poorly
speak slightly of
speak soothing words
speak the truth
speak thickly
speak through your nose
speak to
speak to the winds
speak too late
speak too soon
speak true
speak up
speak up for
speak volumes
speak warmly of
speak well for
speak well of
speak with
speak with forked tongue
speak words of wisdom
speak your mind
speak your piece
speak-easy
speaker hole
speaker key
speaker system
speaker unit
speaker's platform
speaker's stand
speaking arc
speaking clock
speaking generally
speaking in tongues
speaking of
speaking part
speaking pipe
speaking rod
speaking stop
speaking terms
speaking trumpet
speaking tube
speaking type
speaking up for
speaking-to
speaking-trumpet
speaking-tube
spear bed
spear crowfoot
spear foot
spear grass
spear gun
spear hand
spear hook
spear javelin
spear kin
spear lily
spear plate
spear play
spear point
spear pyrites
spear rest
spear rod
spear side
spear thistle
spear thrower
spear widgeon
spear-bearing
spear-bill
spear-billed
spear-bound
spear-brandishing
spear-breaking
spear-carrier
spear-fallen
spear-famed
spear-grass
spear-head
spear-head spoon
spear-headed
spear-high
spear-nosed
spear-pierced
spear-pointed
spear-shaking
spear-shaped
spear-skilled
spear-splintering
spear-swept
spear-thrower
spear-throwing
spear-wielding
spearmint oil
special act
special affinity
special agent
special area
special article
special assessment
special case
special circumstance
special committee
special consideration
special constable
special contract
special correspondent
special court-martial
special delivery
special demurrer
special dividend
special drawing rights
special edition
special effect
special effects
special electronic
special favor
special full-dress uniform
special handling
special hospital
special interest
special interests
special jury
special knowledge
special library
special licence
special map
special order
special orders
special partner
special partnership
special permission
special pleader
special pleading
special police
special privilege
special providence
special relativity
special rule
special school
special session
special sessions
special situation stock
special sort
special staff
special term
special theory of relativity
special treatment
special troops
special-delivery
special-interest group
special-interest lobby
special-interest pressure
special-process
special-purpose tubes
specialite de la maison
specialize in
specialized dictionary
specialized kinds
specialized knowledge
specialized stones
specialty contract
specialty shop
specialty stock
specie payment
specie point
species pectorales
specific activity
specific character
specific charge
specific conductance
specific duty
specific epithet
specific gravity
specific heat
specific heat capacity
specific humidity
specific immunity
specific impulse
specific inductive capacity
specific inflammation
specific performance
specific reluctance
specific remedy
specific resistance
specific therapy
specific treatment
specific viscosity
specific volume
specific-gravity
specific-gravity balance
specific-gravity bottle
specific-gravity bulbs
specifica requirements
specifically provide
specimen bottle
specimen plant
specio-
specious appearance
specious argument
specious present
specious reasoning
speck block
speckle loon
speckle perch
speckle trout
speckle-backed
speckle-bellied
speckle-billed
speckle-breasted
speckle-coated
speckle-faced
speckle-marked
speckle-skinned
speckle-starred
speckled Sussex
speckled trout
spectacle case
spectacle clew
spectacle coot
spectacle frame
spectacle furnace
spectacle iron
spectacle stone
spectacled cobra
spectator sport
specter bat
specter candle
specter crab
specter lemur
specter shrimp
specter-fighting
specter-haunted
specter-looking
specter-mongering
specter-pallid
specter-staring
specter-thin
specter-wan
spectra yellow
spectral classification
spectral color
spectral ghost
spectral line
spectral luminous efficiency
spectral series
spectral type
spectro-
spectroscopic analysis
spectroscopic binary
spectroscopic camera
spectrum analysis
spectrum color
spectrum locus
spectrum-luminosity diagram
speculate in stocks
speculative geometry
speculative philosophy
speculative securities
speculative stock
speculum metal
speech abnormality
speech accent
speech act
speech area
speech center
speech choir
speech circuit
speech clinic
speech community
speech correction
speech curve
speech day
speech defect
speech form
speech from the throne
speech house
speech impediment
speech island
speech map
speech melody
speech organ
speech pathology
speech reading
speech rhythm
speech room
speech situation
speech sound
speech sounds
speech tune
speech-bereaving
speech-bereft
speech-bound
speech-famed
speech-flooded
speech-maker
speech-reading
speech-reporting
speech-shunning
speech-writing
speed along
speed away
speed boss
speed box
speed comparisons
speed cone
speed cones
speed control
speed controller
speed cop
speed counter
speed demon
speed flag
speed frame
speed freak
speed gauge
speed gear
speed indicator
speed lamp
speed lathe
speed light
speed limit
speed maniac
speed merchant
speed meter
speed of sound
speed on
speed on its way
speed over the bottom
speed over the ground
speed pulley
speed record
speed recorder
speed reducer
speed regulator
speed rigger
speed road
speed sheet
speed sight
speed skate
speed sprayer
speed test
speed the parting guest
speed tool
speed trap
speed truck
speed up
speed-length ratio
speed-up
speeding-place
speedway race
spek-boom
spell backward
spell down
spell of nerves
spell of rain
spell of work
spell off
spell out
spell-banned
spell-bind
spell-bound
spell-casting
spell-caught
spell-free
spell-invoking
spell-like
spell-raised
spell-riveted
spell-set
spell-sprung
spell-stopped
spell-struck
spell-weaving
spelling bee
spelling book
spelling match
spelling pronunciation
spelling reform
spelling reformer
spelter calciner
spelter chills
spelter solder
spencer mast
spend a penny
spend as if money grew on trees
spend like a drunken sailor
spend money like water
spend more than you have
spend the time
spend time
spend what you haven't got
spend your time in
spend yourself
spend yourself for
spend-all
spend-good
spending money
spending-money
spendthrift of your tongue
spendthrift trust
spenserian sonnet
spenserian stanza
spent-gnat
spent-gnat fly
sperm aster
sperm candle
sperm cell
sperm center
sperm nucleus
sperm oil
sperm receptor
sperm sac
sperm whale
sperm whaler
sperm whaling
sperm-
sperm-whale porpoise
spermat-
spermathecal gland
spermatic cord
spermatic fluid
spermatic plexus
spermatic veins
spermato-
spermatophore sac
spermicidal jelly
spermo-
spew out
spewing sickness
spey cast
sphae-ropsidaceous
sphaero-
sphagnum bog
sphagnum frog
sphagnum moss
spheno-
spheno-occipital
sphenoid bone
sphere circle
sphere crystals
sphere fungus
sphere gap
sphere geometry
sphere of influence
sphere of work
sphere tracks
sphere-born
sphere-descended
sphere-filled
sphere-found
sphere-headed
sphere-shaped
sphere-tuned
spheres of influence
spherical aberration
spherical angle
spherical coordinate
spherical coordinates
spherical excess
spherical geometry
spherical polygon
spherical sailing
spherical triangle
spherical trigonometry
spherico-
sphero-
spheroidal galaxy
spherometer caliper
sphinx baboon
sphinx caterpillar
sphinx moth
sphinxes without secrets
sphygmo-
spice ball
spice birch
spice box
spice cake
spice currant
spice grinder
spice mill
spice nut
spice of wit
spice plate
spice shop
spice store
spice trade
spice tree
spice-bearing
spice-box
spice-breathing
spice-burnt
spice-cake
spice-fraught
spice-laden
spice-warmed
spice-wood
spicebush silk moth
spicebush swallowtail
spici-
spick and span
spick and span new
spick-and-span
spick-and-spanedy
spick-and-spanness
spick-span-new
spiculi-
spicy fleabane
spider ant
spider band
spider beetle
spider bug
spider cart
spider catcher
spider cell
spider crab
spider diver
spider eater
spider fern
spider fly
spider grass
spider hoop
spider hunter
spider leg
spider lily
spider line
spider mite
spider monkey
spider nevus
spider orchid
spider orchis
spider phaeton
spider plant
spider shell
spider stitch
spider wagon
spider wasp
spider web
spider wheel
spider's web
spider-catcher
spider-crab
spider-fingered
spider-hunting wasp
spider-leg
spider-leg table
spider-legged
spider-leggy
spider-like
spider-limbed
spider-line
spider-shanked
spider-spun
spider-web
spider-webby
spiderwort family
spiegel charger
spiegel iron
spiff up
spiffed up
spigot joint
spike bit
spike bowsprit
spike buck
spike disease
spike grass
spike heath
spike heel
spike knot
spike lavender
spike nail
spike oil
spike rush
spike shell
spike team
spike tub
spike your guns
spike-billed
spike-horned
spike-kill
spike-lavender oil
spike-leaved
spike-nail
spike-pitch
spike-pitcher
spike-rush
spike-tailed
spike-tooth
spike-tooth harrow
spiked alder
spikenard tree
spiketail coat
spiketail family
spiking piece
spile driver
spilling batten
spill blood
spill box
spill ink
spill it
spill light
spill out
spill over
spill stream
spill the beans
spill your guts
spill-
spill-over
spillet fishing
spilling line
spilt milk
spin a long yarn
spin bowler
spin casting
spin fisherman
spin fishing
spin house
spin in
spin like a teetotum
spin like a top
spin off
spin out
spin quantum number
spin rocks
spin stabilization
spin the bottle
spin the plate
spin the platter
spin wave
spin-dried
spin-drier
spin-dry
spin-dryer
spin-drying
spin-house
spin-off
spin-stabilized rocket
spin-text
spina bifida
spinach beet
spinach blight
spinach dock
spinach flea beetle
spinach green
spinach yellows
spinach-colored
spinach-rhubarb
spinal accessory nerve
spinal anaesthesia
spinal anesthesia
spinal canal
spinal column
spinal cord
spinal meningitis
spinal tap
spindle bander
spindle fiber
spindle fibers
spindle file
spindle kin
spindle oil
spindle pointer
spindle sander
spindle shell
spindle side
spindle sprout
spindle step
spindle stone
spindle stretcher
spindle stromb
spinning electrons
spinning frame
spinning gland
spinning head
spinning house
spinning jenny
spinning lathe
spinning machine
spinning mammilla
spinning mite
spinning mule
spinning out
spinning pot
spinning top
spinning tube
spinning wheel
spinning-house
spinning-jenny
spinning-out
spinning-wheel
spino-
spino-olivary
spino-olivary tract
spinocerebellar tract
spinous process
spinous-branched
spinous-finned
spinous-foliaged
spinous-leaved
spinous-pointed
spinous-serrate
spinous-tailed
spinous-tipped
spinous-toothed
spinuli-
spiny anteater
spiny bur
spiny cocklebur
spiny dogfish
spiny lizard
spiny lobster
spiny ray
spiny-backed
spiny-coated
spiny-crested
spiny-finned
spiny-footed
spiny-fruited
spiny-haired
spiny-leaved
spiny-legged
spiny-margined
spiny-pointed
spiny-rayed
spiny-ribbed
spiny-skinned
spiny-tailed
spiny-tipped
spiny-toothed
spiral balance
spiral bevel gear
spiral binding
spiral casing
spiral galaxy
spiral gear
spiral loop
spiral nebula
spiral notebook
spiral of Archimedes
spiral shell end mill
spiral spring
spiral staircase
spiral stairs
spiral upward
spiral-bound
spiral-coated
spiral-geared
spiral-grooved
spiral-horned
spiral-nebula
spiral-nebula hypothesis
spiral-pointed
spiral-spring
spiral-vane
spiraling prices
spiraling up
spire light
spire-bearer
spire-shaped
spire-steeple
spiric body
spirit away
spirit blue
spirit butterfly
spirit compass
spirit control
spirit duck
spirit duplicator
spirit gum
spirit lamp
spirit level
spirit leveling
spirit manifestation
spirit of hartshorn
spirit of nitrous ether
spirit of the age
spirit of the sea
spirit of the time
spirit of turpentine
spirit rapper
spirit rapping
spirit up
spirit varnish
spirit vinegar
spirit world
spirit writing
spirit-awing
spirit-boiling
spirit-born
spirit-bowed
spirit-bribing
spirit-broken
spirit-cheering
spirit-chilling
spirit-crushed
spirit-crushing
spirit-drinking
spirit-fallen
spirit-freezing
spirit-froze
spirit-guided
spirit-haunted
spirit-healing
spirit-inspiring
spirit-lifting
spirit-marring
spirit-numb
spirit-piercing
spirit-possessed
spirit-prompted
spirit-pure
spirit-quelling
spirit-rapper
spirit-rapping
spirit-refreshing
spirit-rousing
spirit-sinking
spirit-small
spirit-soothing
spirit-speaking
spirit-stirring
spirit-stricken
spirit-thrilling
spirit-torn
spirit-troubling
spirit-walking
spirit-wearing
spirit-wise
spirits of ammonia
spirits of camphor
spirits of hartshorn
spirits of salt
spirits of the air
spirits of turpentine
spirits of wine
spiritual being
spiritual blindness
spiritual body
spiritual bouquet
spiritual cleansing
spiritual climate
spiritual death
spiritual director
spiritual father
spiritual healer
spiritual healing
spiritual humbug
spiritual incest
spiritual leader
spiritual love
spiritual presence
spiritual purification
spiritual void
spiritual wife
spiritual-minded
spiritual-mindedly
spiritual-mindedness
spiritually blind
spiritually cleansed
spiritually purified
spirituous tincture
spiritus asper
spiritus camphorae
spiritus frumenti
spiritus lenis
spiritus mundi
spirketing plate
spiro compound
spiro-
spit and image
spit and polish
spit bug
spit curl
spit image
spit in the ocean
spit it out
spit on your hands
spit up
spit upon
spit-and-polish
spit-ball
spite fence
spite of
spite wall
spite work
spitfire jib
spitting cobra
spitting distance
spitting image
spitting snake
spittle bug
spittle fly
spittle insect
spitz dog
spitz flute
splanchno-
splash back
splash dam
splash feed
splash guard
splash lubrication
splash of rain
splash out
splash system
splash zone
splash-
splash-down
splash-lubricate
splash-tight
splat-back
splatter-faced
splay-edged
splay-footed
splay-kneed
splay-legged
splay-mouthed
splay-toed
spleen amaranth
spleen stone
spleen-born
spleen-devoured
spleen-pained
spleen-piercing
spleen-shaped
spleen-sick
spleen-struck
spleen-swollen
spleenwort bush
splendid isolation
splenic fever
spleno-
splice bar
splice box
splice graftage
splice grafting
splice the main brace
splicing chamber
splicing hammer
spline broach
spline clutch
spline joint
spline milling machine
spline shaft
spline weight
splint armor
splint bar
splint basket
splint bone
splint coal
splint peeler
splint seat
splint-bottom
splint-bottomed
splinter bar
splinter bulkhead
splinter deck
splinter group
splinter party
splinter-bar
splinter-proof
splish-splash
split 'S'
split T formation
split balance
split decision
split flap
split hairs
split in two
split infinitive
split nut
split open
split pea
split personality
split rail
split run
split schedule
split screen
split second
split shift
split shot
split shovel
split spindle
split sprit
split stroke
split the atom
split the difference
split the ear
split the eardrums
split the ears
split the lungs
split the throat
split ticket
split tin
split turning
split up
split upon a rock
split wheel
split wing
split with laughter
split your head
split your sides
split-
split-bottom
split-eared
split-edge
split-face
split-level
split-lift
split-mouth
split-nosed
split-oak
split-off
split-phase
split-phase motor
split-screen technique
split-second watch
split-timber
split-tongued
split-up
splitmouth sucker
splitting chisel
splitting factor
splitting field
splitting gun
splitting headache
splitting in two
splitting plate
splitting the atom
splitworm moth
spodo-
spoil bank
spoil for
spoil ground
spoil paper
spoil-
spoil-mold
spoil-paper
spoiled brat
spoiled child
spoiled darling
spoiled rotten
spoiling for
spoils of office
spoils system
spoke auger
spoke in your wheel
spoke stitch
spoke-dog
spoken language
spoken word, the
spolia opima
spon-image
spondylitis deformans
sponge bag
sponge bath
sponge cake
sponge cloth
sponge cucumber
sponge diver
sponge down
sponge drop
sponge finger
sponge fisher
sponge fisherman
sponge gourd
sponge grafting
sponge hook
sponge iron
sponge mop
sponge off
sponge on
sponge out
sponge pudding
sponge rubber
sponge tree
sponge up
sponge-bearing
sponge-cake
sponge-colored
sponge-diving
sponge-fishing
sponge-footed
sponge-leaved
sponge-painted
sponge-shaped
spongi-
sponging house
sponging-house
spongio-
spongo-
spongy-flowered
spongy-footed
spongy-looking
spongy-rooted
spongy-wet
spongy-wooded
spontaneous combustion
spontaneous generation
spontaneous recovery
spontaneous response
spool bed
spool turner
spool turning
spool winder
spool-shaped
spooling bracket
spoon bait
spoon bit
spoon bow
spoon brake
spoon bread
spoon chisel
spoon end
spoon food
spoon gouge
spoon hook
spoon iron
spoon lever
spoon meat
spoon nail
spoon net
spoon oar
spoon out
spoon tool
spoon victual
spoon victuals
spoon-back
spoon-beaked
spoon-billed
spoon-bowed
spoon-fashion
spoon-fashioned
spoon-fed
spoon-feed
spoon-feeding
spoon-formed
spoon-meat
spoon-shaped
spoonbill cat
spoonwood ivy
spoony over
spor-
sporadic E layer
sporadic cholera
spore ball
spore case
spore cell
spore fruit
spore mother cell
spore print
spore sac
sporo-
sport car
sport clothes
sport coat
sport fish
sport jacket
sport plane
sport shirt
sport your oak
sport-affording
sport-giving
sport-hindering
sport-loving
sport-making
sport-starved
sporting blood
sporting book
sporting chance
sporting dog
sporting editor
sporting girl
sporting goods
sporting goods store
sporting house
sporting lady
sporting man
sporting page
sporting section
sporting-wise
sports car
sports clothes
sports day
sports editor
sports jacket
sports page
sports parachutist
sports plane
sports section
sports shirt
sports suit
spot announcement
spot ball
spot blotch
spot board
spot card
spot cards
spot cash
spot check
spot cotton
spot dyeing
spot grain
spot height
spot illustration
spot lamp
spot lens
spot lighting
spot line
spot map
spot news
spot of lunch
spot of sleep
spot pass
spot pawn
spot pickup
spot plate
spot price
spot rot
spot sale
spot stroke
spot test
spot weld
spot welder
spot welding
spot white
spot zone
spot-barred
spot-billed
spot-check
spot-drill
spot-eared
spot-face
spot-grind
spot-leaved
spot-lipped
spot-mill
spot-on
spot-soiled
spot-weld
spot-winged
spotted adder
spotted calla lily
spotted cavy
spotted cowbane
spotted crake
spotted crane's-bill
spotted dick
spotted fever
spotted flycatcher
spotted hemlock
spotted hyena
spotted joe-pye weed
spotted sandpiper
spotted spurge
spotted sunfish
spotted wilt
spotted wintergreen
spotted-beaked
spotted-bellied
spotted-billed
spotted-breasted
spotted-eared
spotted-fever tick
spotted-finned
spotted-leaved
spotted-necked
spotted-tailed
spotted-winged
spotter plane
spotting machine
spotting motion
spotting scope
spotty market
spouse-breach
spout adz
spout cup
spout fish
spout hole
spout off
spout out
spout shell
spout-hole
spouting horn
spraddle-legged
sprag road
sprain fracture
sprangle-top
sprat barley
sprat borer
sprat day
sprat loon
sprat-barley
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
spray-decked
spray-shaped
spray-topped
spray-washed
spray-wet
spread a large clew
spread a shade over
spread a shadow over
spread a small clew
spread about
spread city
spread eagle
spread formation
spread light
spread like wildfire
spread on
spread on a color
spread on the record
spread out
spread over
spread reflection
spread sail
spread sheet
spread sideways
spread sidewise
spread the toils
spread with
spread yourself
spread-eagle
spread-eagled
spread-eagleism
spread-eagleist
spread-eagling
spread-out
spread-over
spread-set
spreader beam
spreader car
spreading abroad
spreading board
spreading dogbane
spreading factor
spreading like a cancer
spreading like wildfire
spreading machine
spreading out
spreading too thin
sprig bolt
sprig budding
sprig-bit
sprig-tailed
sprightly wit
spring a leak
spring a mine under
spring a surprise
spring apart
spring azure
spring back
spring balance
spring barley
spring base
spring beam
spring beauty
spring bed
spring beetle
spring bell
spring binder
spring block
spring bolt
spring bows
spring brass
spring caliper
spring calipers
spring cankerworm
spring catarrh
spring catch
spring chair
spring chicken
spring clip
spring collet
spring corn
spring cotter
spring cowslip
spring cress
spring detent
spring die
spring dividers
spring draft gear
spring faucet
spring fever
spring flood
spring fly
spring frog
spring from
spring governor
spring grain aphis
spring grass
spring green
spring gun
spring hammer
spring harrow
spring heath
spring heel
spring herring
spring hoe
spring hook
spring iris
spring key
spring lamb
spring latch
spring leaf
spring ligament
spring lily
spring line
spring lock
spring mattress
spring molding
spring mushroom
spring needle
spring nut
spring oats
spring onion
spring open
spring orange
spring orchid
spring pad
spring padlock
spring peeper
spring perch
spring pin
spring plate
spring pole
spring rail
spring rains
spring ring
spring rye
spring safety valve
spring sage
spring saxifrage
spring scale
spring scorpion grass
spring seat
spring snow
spring snowflake
spring starflower
spring stay
spring steel
spring stripper
spring switch
spring temper
spring the eye
spring tide
spring to your feet
spring tool
spring tooth
spring training
spring up
spring upon
spring valve
spring vetch
spring vetchling
spring vise
spring wagon
spring washer
spring water
spring weir
spring wheat
spring wheel
spring-beam
spring-blooming
spring-blossoming
spring-board
spring-born
spring-budding
spring-clean
spring-cleaner
spring-cleaning
spring-driven
spring-flood
spring-flowering
spring-framed
spring-gathered
spring-grown
spring-habited
sprocket wheel
sprout cell
sprout forest
sprout from
sprout up
sprout wings
sprouted oats
spruce bark beetle
spruce beer
spruce budworm
spruce fir
spruce grouse
spruce pine
spruce sawfly
spruce up
spruce yellow
spruced up
sprung molding
sprung rhythm
spud casing
spud in
spud-bashing
spudding bar
spule-bane
spun glass
spun hay
spun out
spun rayon
spun silk
spun sugar
spun yarn
spun-out
spunk up
spur bit
spur blight
spur bunting
spur chuck
spur dike
spur forger
spur fowl
spur gall
spur gear
spur gear wheel
spur gearing
spur grass
spur mortise gear
spur on
spur pepper
spur pinion
spur pruning
spur royal
spur ryal
spur shell
spur shore
spur stone
spur timber
spur track
spur tree
spur valerian
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-geared
spur-gilled
spur-heeled
spur-jingling
spur-leather
spur-of-the-moment
spur-of-the-moment response
spur-off-the-moment
spur-rowel
spur-royal
spur-shaped
spur-tailed
spur-toed
spur-wing
spur-winged
spurge daphne
spurge family
spurge flax
spurge ipecac
spurge laurel
spurge moth
spurge nettle
spurge olive
spurge thyme
spurge-wort
spurious wing
spurling line
spurling pipe
spurry sandwort
spurt of rain
sputter and stop
sputum cup
spy glass
spy on
spy out
spy plane
spy ship
spy upon
spy-
spy-catcher
spy-glass
squab broiler
squab pie
squab-pie
squabble over
squad car
squad leader
squad room
squadron leader
squad-s-left
squad-s-right
squall cloud
squall line
squam duck
squam-
squamo-
squamo-occipital
squamoso-
squamous epithelium
squander in dribs and drabs
squanter-squash
square accounts
square accounts with
square and rabbet
square away
square bit
square body
square bracket
square cap
square centimeter
square contingency
square dance
square dancing
square deal
square dealing
square file
square foot
square frame
square inch
square it
square joint
square kilometer
square knot
square leg
square mark
square matrix
square meal
square measure
square meter
square mile
square millimeter
square number
square odds
square of opposition
square off
square one
square peg in a round hole
square piano
square rig
square root
square root planimeter
square sail
square serif
square set
square shake
square shooter
square shooting
square splice
square the circle
square the yards
square things
square tin
square up
square wave
square with
square with the evidence
square with the facts
square yourself with
square-John
square-barred
square-based
square-bashing
square-bladed
square-bodied
square-bottomed
square-browed
square-built
square-butted
square-cheeked
square-chinned
square-countered
square-cut
square-dancer
square-dealing
square-draw
square-drill
square-eared
square-edged
square-elbowed
square-faced
square-figured
square-fronted
square-headed
square-hewn
square-jawed
square-jointed
square-leg
square-lipped
square-looking
square-made
square-marked
square-meshed
square-mouthed
square-necked
square-nosed
square-rigged
square-rigger
square-root flowmeter
square-rumped
square-set
square-set stoping
square-shafted
square-shaped
square-shooting
square-shouldered
square-skirted
square-stalked
square-stem
square-stemmed
square-sterned
square-tailed
square-thread
square-threaded
square-tipped
square-toed
square-toedness
square-toes
square-topped
square-towered
square-wave generator
squared circle
squared off
squared paper
squared ring
squared splice
squaring lathe
squared the circle
squarroso-
squarroso-dentate
squarroso-laciniate
squarroso-pinnatifid
squarroso-pinnatisect
squash beetle
squash bite
squash borer
squash bug
squash court
squash flea beetle
squash ladybird
squash rackets
squash racquets
squash tennis
squash vine borer
squash-
squash-vine borer
squashed flat
squat board
squat on
squat tag
squat-bodied
squat-built
squat-hatted
squatter sovereignty
squatter's right
squaw carpet
squaw corn
squaw duck
squaw huckleberry
squaw man
squaw mint
squaw vine
squaw waterweed
squaw winter
squaw-drops
squawk box
squawk duck
squeak by
squeak through
squeal on
squeegee roller
squeeze bottle
squeeze box
squeeze in
squeeze joint
squeeze out
squeeze out a living
squeeze play
squeeze shut
squeeze your hand
squeeze-box
squeeze-up
squeezed joint
squeezed shut
squeezing out
squelch circuit
squelette clock
squid hound
squid-jigger
squid-jigging
squill blue
squill-like
quinsey berry
squinch arch
squinch-eyed
squint brick
squint eyes
squint the eye
squint-eye
squint-eyed
squint-eyedness
squinting construction
squire snapper
squirm out of
squirm with embarrassment
squirm with self-consciousness
squirrel away
squirrel cage
squirrel cage rotor motor
squirrel corn
squirrel cup
squirrel food
squirrel frog
squirrel grass
squirrel hake
squirrel hawk
squirrel monkey
squirrel mouse
squirrel phalanger
squirrel plague
squirrel rifle
squirrel shrew
squirrel something away
squirrel tail
squirrel tail grass
squirrel's-ear
squirrel's-foot fern
squirrel-cage motor
squirrel-colored
squirrel-eyed
squirrel-headed
squirrel-limbed
squirrel-minded
squirrel-tail
squirrel-tail grass
squirrel-trimmed
squirrels-foot fern
squirreltail grass
squirt can
squirt gun
squirt-fire
squirtling cucumber
squish-squash
squitch grass
stab at
stab culture
stab in the back
stab kick
stab pass
stab to death
stab wages
stab wound
stabat mater
stabbing pain
stabilization fund
stable color
stable door
stable equation
stable equilibrium
stable fly
stable oscillation
stable police
stable state
stable-born
stable-stand
staccato mark
staccato sound
stack against
stack of bones
stack process
stack room
stack the cards
stack the deck
stack up
stack up with
stack-garth
stacked deck
stacking band
stacking belt
stacking swivel
stadia hair
stadia rod
stadia wire
staff angle
staff bead
staff captain
staff car
staff college
staff commander
staff corps
staff degree
staff department
staff notation
staff nurse
staff of Aesculapius
staff of life
staff of office
staff officer
staff ride
staff rush
staff section
staff sergeant
staff sling
staff surgeon
staff system
staff tree
stage peg
stage performance
stage performer
stage play
stage player
stage playing
stage pocket
stage presence
stage presentation
stage property
stage right
stage scenery
stage screw
stage set
stage setter
stage setting
stage show
stage technician
stage wagon
stage wait
stage whisper
stage world
stage, the
stage-blanks
stage-bleed
stage-coach
stage-frighten
stage-manage
stage-managed
stage-manager
stage-managing
stage-set
stage-struck
stagger along
stagger belief
stagger grass
stagger head
stagger on
stagger spokes
stagger wire
stagger wires
staggered head
staggering belief
staggering blow
staggering bob
staggering drunk
staghorn coral
staghorn fern
staghorn moss
staghorn sumac
staging area
staging nail
stagnant market
stagnant water
stagnant-blooded
stagnant-minded
stagnant-souled
stagnation mastitis
staight-bred
stain paper
stained glass
stained glass window
stainless steel
stainless-steel ware
stair horse
stair rail
stair rod
stair tower
stair turret
stair well
stair wire
stair-foot
stair-head
stair-step
stair-stepper
staircase curve
staircase shell
stake boat
stake body
stake down
stake driver
stake horse
stake net
stake out
stake race
stake truck
stake your claim
stake-boat
stakes race
staking your claim
stalactite vault
stalactite work
stalagmite marble
stale repetition
stale-drunk
stale-grown
stale-mouthed
stale-worn
stalk borer
stalk disease
stalk smut
stalk-eyed
stalking-horse
stalk angl
stalk angle
stalk angle of attack
stalk around
stalk for time
stalk landing
stalk net
stalk off
stalk plate
stalk reader
stalk-fed
stalk-feed
stalk-feeding
stalk-like
stalk-master
stalling angle
stalling angle of attack
stalling speed
stallion plague
stamin-
stamp and go
stamp battery
stamp book
stamp booklet
stamp copper
stamp dealer
stamp duty
stamp hammer
stamp in the memory
stamp licker
stamp mill
stamp note
stamp of approval
stamp on
stamp out
stamp pad
stamp rock
stamp tax
stamp upon
stamp your foot
stamp-licking
stamped on the memory
stamped securities
stamping ground
stamping mill
stance fatigue
stanch friendship
stanchion gun
stand a chance
stand a good chance
stand aghast
stand agog
stand alone
stand aloof
stand aloof from
stand and be counted against
stand apart
stand around
stand aside
stand at attention
stand at bay
stand at ease
stand at parade rest
stand at the head
stand away
stand back
stand back of
stand bail for
stand behind
stand by
stand by the main sheet
stand by the side of
stand by to weigh anchor
stand clear of
stand condemned
stand down
stand drinks
stand easy
stand erect
stand fair to
stand fast
stand fire
stand firm
stand first
stand for
stand for office
stand forth
stand from
stand guard
stand guard over
stand hawk
stand high
stand house
stand in
stand in a white sheet
stand in awe of
stand in dread of
stand in for
stand in for the land
stand in front
stand in good stead
stand in need of
stand in the place of
stand in the stead of
stand in the way
stand in the way of
stand in with
stand in your own light
stand like a post
stand method
stand mute
stand neuter
stand no nonsense
stand of arms
stand of timber
stand off
stand off and on
stand oil
stand on
stand on a course
stand on a straight course
stand on a volcano
stand on ancient ways
stand on ceremony
stand on end
stand on tiptoe
stand on tiptoes
stand on your own
stand on your own feet
stand on your own legs
stand on your own two feet
stand on your rights
stand one in hand
stand opposed
stand opposite
stand or fall with
stand out
stand out from the shore
stand over
stand over against
stand pat
stand ready
stand responsible for
stand rest
stand revealed
stand sentinel
stand shoulder to shoulder
stand shoulder to shoulder with
stand sponsor for
stand still
stand the costs
stand the gaff
stand the hazard of the die
stand the test
stand to
stand to attention
stand to gain
stand to lose
stand to reason
stand to your engagement
stand together
stand treat
stand under
stand up
stand up against
stand up and be counted
stand up for
stand up for Jesus
stand up straight
stand up to
stand up with
stand upon
stand upon a course
stand upon your rights
stand upright
stand vis-a-vis
stand with arms akimbo
stand you in good stead
stand you in stead
stand your ground
stand your trick
stand your watch
stand-by
stand-bys
stand-down
stand-easy
stand-in
stand-off
stand-off half
stand-offish
stand-offishly
stand-offishness
stand-on vessel
stand-patter
stand-pipe
stand-to
stand-up
stand-up comedian
stand-up comedy
stand-up comedy act
stand-up comic
stand-up fight
standard article
standard atmosphere
standard band
standard behavior
standard broadcasting
standard candle
standard cell
standard coke
standard compass
standard cost
standard deviation
standard dialect
standard dollar
standard error
standard gauge
standard language
standard lining
standard microphone
standard money
standard of comfort
standard of life
standard of living
standard of perfection
standard of value
standard operating procedure
standard page
standard phrase
standard pitch
standard position
standard refraction
standard stock
standard time
standard transmission
standard usage
standard work
standard-bearer
standard-bearership
standard-bred
standard-gage
standard-gaged
standard-gauge
standard-gauged
standard-sized
standard-wing
standardized test
stander-by
standing against
standing apart
standing army
standing at attention
standing barrage
standing broad jump
standing committee
standing custom
standing for office
standing gaff
standing high jump
standing jump
standing lug
standing martingale
standing matter
standing on end
standing on its base
standing on its feet
standing on its legs
standing order
standing orders
standing ovation
standing place
standing rigging
standing room
standing room only
standing salt
standing stone
standing to
standing treat
standing up
standing upright
standing vise
standing water
standing wave
standing way
standing-place
standing-wave indicator
standoff coat
standoff half
stanford-binet test
stank hen
stann-
stannel hawk
stannic acid
stannic oxide
stannic sulfide
stannic sulphide
stanno-
stannoso-
staphylo-
staple fiber
staple fur
staple item
staple punch
staple right
staple-fashion
staple-headed
staple-shaped
stapling machine
star acacia
star anise
star anise oil
star aniseed
star antimony
star apple
star belt
star bomb
star buzzard
star capsicum
star catalog
star catalogue
star chart
star check
star chickweed
star cloud
star cluster
star colors
star connection
star coral
star count
star ruby
star sapphire
star saxifrage
star scout
star shake
star shell
star shifter
star shower
star skunk
star slough
star spectrocope
star spray
star stream
star streaming
star system
star thistle
star time
star trail
star tulip
star turn
star violet
star wheel
star winding
star worship
star worshiper
star-apple
star-aspiring
star-bearing
star-bedecked
star-bedizened
star-bespotted
star-bestudded
star-blasting
star-born
star-bright
star-broidered
star-chamber
star-climbing
star-connected
star-crossed
star-crossed life
star-decked
star-directed
star-dogged
star-dust
star-embroidered
star-eyed
star-fashion
star-fed
star-flower
star-flowered
star-gaze
star-gazer
star-gazing
star-grass
star-inwrought
star-leaved
star-led
star-like
star-mouthed
star-nosed
star-nosed mole
star-of-Bethlehem
star-of-Jerusalem
star-of-bethlehem
star-paved
star-peopled
star-pointed
star-proof
star-ribbed
star-scattered
star-shaped
star-shot
star-skilled
star-spangled
star-spangled banner
star-staring
star-stone
star-studded
star-surveying
star-sweet
star-taught
star-thistle
star-throated
star-watching
star-wearing
star-wise
star-ypointing
starboard anchor
starboard engine
starboard engine ahead
starboard tack
starch blue
starch cellulose
starch corn
starch gum
starch hyacinth
starch layer
starch paste
starch room
starch sheath
starch sirup
starch star
starch syrup
starch tree
starch-digesting
starch-producing
starch-reduced
starch-sized
stare at
stare decisis
stare down
stare hard
stare openmouthed
stare out
stare out of countenance
stare you in the face
stare-about
starfish flower
stark blind
stark dead
stark naught
stark upright
stark-awake
stark-becalmed
stark-blind
stark-calm
stark-dead
stark-drunk
stark-dumb
stark-false
stark-mad
stark-naked
stark-naught
stark-new
stark-raving
stark-raving mad
stark-spoiled
stark-staring
stark-staring mad
stark-stiff
stark-wild
stark-wood
starling stone
starnose mole
starring role
starry campion
starry grasswort
starry heaven
starry heavens
starry host
starry orbs
starry-bright
starry-eyed
starry-eyed over
starry-flowered
starry-golden
starry-headed
starry-nebulous
stars and bars
stars and stripes
stars-of-Bethlehem
stars-of-Jerusalem
start all over
start aside
start back
start going
start in
start music
start off
start on
start out
start the ball rolling
start up
start-naked
start-off
start-stop switch
start-up
starter-off
starting block
starting box
starting friction
starting gate
starting grid
starting handle
starting line
starting note
starting place
starting point
starting post
starting price
starting punch
starting stalls
starting step
starting torque
starting-hole
startle the echoes
startling resemblance
starvation diet
starvation treatment
starvation wages
starved-looking
stash away
stat mi
state a grievance
state aid
state assembly
state attorney
state bank
state bond
state capitalism
state chairman
state chamber
state church
state college
state convention
state coordinate system
state flower
state forest
state guard
state highway
state hospital
state legislature
state medicine
state mutual
state note
state of affairs
state of being
state of being one
state of expectancy
state of grace
state of mind
state of nature
state of nerves
state of suspense
state of the exchequer
state of the market
state of things
state of war
state ownership
state paper
state police
state prayers
state prison
state religion
state rights
state school
state senator
state services
state socialism
state socialist
state tax
state trial
state trooper
state university
state your case
state's attorney
state's evidence
state-aided
state-caused
state-changing
state-educated
state-enforced
state-fed
state-house
state-making
state-mending
state-monger
state-of-the-art
state-owned
state-paid
state-pensioned
state-provided
state-provisioned
state-prying
state-ridden
state-room
state-ruling
state-socialist
state-taxed
state-wide
state-wielding
stated cause
stated clerk
stated value
stateless person
stately home
stately-beauteous
stately-grave
stately-paced
stately-sailing
stately-storied
stately-written
statement covering the evidence
statement covering the facts
statement of belief
statement of claim
statement of defense
statement of facts
statement of principles
statement under oath
states general
states' righter
states' rights
states-people
static ceiling
static electricity
static field
static firing
static friction
static line
static propeller thrust
static stability
static tube
static water
station agent
station break
station day
station error
station hospital
station house
station hut
station identification
station interference
station jack
station keeping
station mark
station point
station pointer
station pole
station selector
station wagon
station-house
station-to-station
station-to-station call
stationary dive
stationary engine
stationary engineer
stationary engineering
stationary front
stationary orbit
stationary point
stationary state
stationary wave
stationery store
stations for diving
stations of the Cross
stations of the cross
statistical communication
statistical independence
statistical mechanics
statistical prediction
statistical probability
statistical survey
statistically probable
stato-
statu quo ante
statuary bronze
statuary marble
statue maker
statue making
statue of liberty
statue-blind
statue-bordered
statue-turning
statuelike repose
statues personal
status emphaticus
status in quo
status quo
status quo ante
status seeker
status symbol
status-seeking
statute book
statute fair
statute labor
statute law
statute merchant
statute mile
statute of limitations
statute roll
statute staple
stay late
stay law
stay near
stay of execution
stay on
stay on the beam
stay on the treadmill
stay on your heels
stay on your tail
stay out
stay over
stay pin
stay plow
stay put
stay stitching
stay tackle
stay tap
stay the distance
stay tube
stay up
stay up for
stay up into the small hours
stay up late
stay with it
stay young
stay your hand
stay-a-while
stay-at-home
stay-bearer
stay-bolt
stay-in
stay-in strike
stay-log
stay-ship
stay-tape
staying over
staying power
staysail schooner
steadfast faith
steady market
steady nerves
steady pin
steady rest
steady so
steady state
steady state theory
steady temper
steady-eyed
steady-footed
steady-going
steady-handed
steady-handedness
steady-headed
steady-hearted
steady-looking
steady-minded
steady-nerved
steady-state theory
steady-state universe
steady-stream
steady as you go
steak and kidney pie
steak hammer
steak knife
steak raid
steak set
steak tartar
steak tartare
steal a march
steal a march on
steal a march upon
steal along
steal away
steal in
steal on the ear
steal the show
steal up on
steal your stuff
steal your thunder
steam at flank speed
steam bath
steam beer
steam blow
steam blower
steam boiler
steam boiler insurance
steam box
steam cabinet
steam carriage
steam case
steam chest
steam cleaner
steam cleaning
steam coal
steam cock
steam coil
steam navvy
steam nigger
steam nozzle
steam organ
steam owner
steam packing
steam piano
steam pipe
steam piping
steam plow
steam point
steam port
steam power
steam press
steam printing
steam propulsion
steam pump
steam radiator
steam radio
steam ram
steam road
steam roller
steam room
steam schooner
steam shovel
steam sizes
steam sloop
steam stamp
steam still
steam table
steam tackle
steam thresher
steam trap
steam tug
steam turbine
steam twill
steam up
steam valve
steam vessel
steam whistle
steam yacht
steam-boiler
steam-chest
steam-clean
steam-cleaned
steam-cooked
steam-cut
steam-distill
steam-dredge
steam-dried
steam-driven
steam-eating
steam-engine
steam-filled
steam-going
steam-heat
steam-heated
steam-lance
steam-lanced
steam-lancing
steam-laundered
steam-pocket
steam-processed
steam-propelled
steam-ridden
steam-roll
steam-roller
steam-shovel
steam-treated
steam-turbine
steam-turbine locomotive
steam-type
steam-wrought
steamboat Gothic
steamboat coal
steamboat gothic
steamboat ratchet
steamed pudding
steamed up
steamed up about
steamer anchorage
steamer basket
steamer captain
steamer chair
steamer clam
steamer contract
steamer crew
steamer cruise
steamer dock
steamer duck
steamer freight
steamer funnel
steamer hull
steamer landing
steamer lane
steamer line
steamer passenger
steamer port
steamer road
steamer route
steamer rug
steamer sailing
steamer service
steamer siren
steamer smoke
steamer smokestack
steamer subsidy
steamer ticket
steamer track
steamer traffic
steamer travel
steamer trunk
steamer voyage
steamer wharf
steamer whistle
steamer-borne
steaming up
steamroller methods
steamroller through
steamship coal
steamship company
steamship freight
steamship lane
steamship line
steamship mail
steamship office
steamship route
steamship service
steamship ticket
steamship traffic
steamship travel
steamship voyage
stearic acid
stearo-
stearoyl group
stearoyl radical
steat-
steato-
steel band
steel bar
steel baron
steel blue
steel bronze
steel company
steel concrete
steel construction
steel drawer
steel dresser
steel electrotype
steel emery
steel engraver
steel engraving
steel factory
steel fiber
steel glass
steel gray
steel grey
steel guitar
steel hand
steel lumber
steel magnate
steel man
steel manufacturer
steel manufacturing
steel master
steel measurer
steel merchant
steel mill
steel mirror
steel orchestra
steel pen
steel plate
steel presser
steel share
steel spring
steel square
steel string
steel town
steel trap
steel wire gauge
steel wool
steel yourself
steel-black
steel-blue
steel-bound
steel-bow
steel-bright
steel-cage
steel-cage construction
steel-capped
steel-cased
steel-clad
steel-clenched
steel-cold
steel-colored
steel-covered
steel-cut
steel-die printing
steel-digesting
steel-edged
steel-faced
steel-framed
steel-grained
steel-graven
steel-gray
steel-green
steel-hard
steel-hardened
steel-head
steel-headed
steel-hilted
steel-lined
steel-nerved
steel-pen
steel-plated
steel-pointed
steel-rimmed
steel-riveted
steel-shafted
steel-sharp
steel-shod
steel-strong
steel-studded
steel-tempered
steel-tipped
steel-tired
steel-topped
steel-trap
steeled against
steelhead trout
steep price
steep slope
steep-ascending
steep-backed
steep-bending
steep-descending
steep-down
steep-faced
steep-gabled
steep-hanging
steep-pitched
steep-pointed
steep-rising
steep-roofed
steep-scarped
steep-sided
steep-streeted
steep-to
steep-up
steep-walled
steep-yawning
steeped in iniquity
steeped in vice
steeple bellflower
steeple cup
steeple engine
steeple hat
steeple headdress
steeple hunt
steeple hunter
steeple hunting
steeple jack
steeple race
steeple racer
steeple racing
steeple skull
steeple-crown
steeple-crowned
steeple-head
steeple-high
steeple-house
steeple-jacking
steeple-loving
steeple-roofed
steeple-shadowed
steeple-shaped
steeple-studded
steeple-topped
steer a middle course
steer a straight course
steer an even course
steer away from
steer clear of
steer for
steer oar
steer toward
steerage passenger
steering arm
steering axle
steering box
steering bridge
steering column
steering committee
steering crutch
steering engine
steering fan
steering fork
steering gear
steering handle
steering head
steering joint
steering knuckle
steering lever
steering light
steering line
steering lock
steering oar
steering pillar
steering wheel
stego-
stellar cosmogony
stellar magnitude
stellar photometry
stellate-crystal
stellate-crystal fungus
stellate-pubescent
stem anchor
stem blight
stem borer
stem break
stem canker
stem cell
stem climber
stem cutting
stem duchy
stem eelworm
stem end
stem father
stem from
stem ginger
stem girdler
stem leaf
stem length
stem mother
stem rot
stem rust
stem sapper
stem sawfly
stem sickness
stem smut
stem stitch
stem the current
stem the flood
stem the tide
stem turn
stem work
stem-bearing
stem-bud
stem-clasping
stem-end rot
stem-sick
stem-wind
stem-winder
stem-winding
stem-winding watch
sten-
stench bomb
stench of decay
stench trap
stencil cutter
stencil cutting
stencil machine
stencil painting
stencil paper
stencil pen
stencil printing
steneo saursys
steno-
stenographing machine
stent net
stent roll
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step dancing
step down
step fault
step flight
step forward
step function
step gauge
step grate
step in
step into a fortune
step into the limelight
step into the place of
step into the shoes of
step joint
step lively
step of time
step off
step on
step on it
step on its tail
step on the gas
step on your corns
step on your toes
step out
step out of
step over
step rail
step rate
step rocket
step socket
step stool
step tap
step terrace
step to the fore
step to the front
step turn
step up
step up the ladder
step ward
step wheel
step-
step-and-repeat
step-back
step-back relay
step-by-step
step-by-step switching
step-cline
step-cone
step-cone pulley
step-cut
step-down
step-down transformer
step-in
step-ins
step-ladder
step-log
step-off
step-on
step-parent
step-up
step-up transformer
steppe cat
steppe disease
steppe murrain
steppe rue
stepped line
stepped-up
stepping in
stepping line
stepping pace
stepping stone
stepping-off
stepping-off place
stepping-out
stepping-stone
stepping-stones
steps and measures
stercoral ulcer
sterculia gum
stere-
stereo camera
stereo formula
stereo microphone
stereo-
stereophonic sound system
stereophonic system
stereoscopic microscope
stereospecific catalyst
stereospecific polymer
stereotyped behavior
stereotyped saying
sterling area
sterling bloc
sterling silver
stern anchor
stern board
stern boat
stern chase
stern chaser
stern fast
stern frame
stern gallery
stern gun
stern hatch
stern hatchway
stern hook
stern knee
stern ladder
stern line
stern race
stern rail
stern sea
stern sheets
stern staysail
stern timber
stern tube
stern walk
stern wave
stern wheel
stern window
stern-bearer
stern-board
stern-born
stern-browed
stern-chase
stern-chaser
stern-eyed
stern-faced
stern-fast
stern-featured
stern-gated
stern-issuing
stern-lipped
stern-looking
stern-minded
stern-mouthed
stern-post
stern-set
stern-sheet
stern-sounding
stern-spoken
stern-visaged
stern-wheel
stern-wheeler
sterno-
sterro metal
sterro-metal
sthetho-
stevedore knot
stevedore's knot
stew in your own juice
stew over
steward's department
stewing chicken
sthula sharira
stib-
stibio-
stick around
stick around or about
stick at
stick at nothing
stick bean
stick bug
stick by
stick caterpillar
stick chair
stick close
stick closer than a brother
stick control
stick down
stick fast
stick figure
stick for
stick in
stick in the mud
stick in your craw
stick in your crop
stick in your gizzard
stick in your throat
stick insect
stick it
stick it out
stick lac
stick licorice
stick like a barnacle
stick like a leech
stick like a limpet
stick like a wet shirt
stick like glue
stick like the shadow of
stick like wax
stick of wood
stick out
stick out a mile
stick out like a sore thumb
stick out over
stick pin
stick rider
stick salve
stick shift
stick to
stick to it
stick to like a barnacle
stick to the
stick to the facts
stick to your colors
stick to your guns
stick to your knitting
stick to your last
stick together
stick up
stick up for
stick with
stick with it
stick your head in the sand
stick your long nose into
stick your neck out
stick your nose in
stick-at-it
stick-at-it-ive
stick-at-itive
stick-at-itiveness
stick-at-nothing
stick-back
stick-button
stick-candy
stick-dice
stick-ear
stick-in-the-mud
stick-jaw
stick-lac
stick-leg
stick-legged
stick-out
stick-ride
stick-to-it-iveness
stick-to-itive
stick-to-itive
stick-to-itably
stick-to-itiveness
stick-up
sticker-in
sticker-on
sticker-up
sticking out
sticking piece
sticking place
sticking plaster
sticking point
sticking power
sticking salve
sticking tommy
stickle for
sticks and stones
sticks, the
sticktight flea
stickup job
stickup man
sticky dog
sticky end
sticky fingers
sticky mess
sticky tape
sticky weather
sticky wicket
sticky willie
sticky-eyed
sticky-fingered
stiff as a poker
stiff as buckram
stiff aster
stiff bit
stiff breeze
stiff climb
stiff collar
stiff gentian
stiff market
stiff neck
stiff price
stiff temper
stiff wind
stiff-arm
stiff-armed
stiff-backed
stiff-bearded
stiff-bent
stiff-billed
stiff-bodied
stiff-bolting
stiff-boned
stiff-bosomed
stiff-branched
stiff-built
stiff-clay
stiff-collared
stiff-docked
stiff-dressed
stiff-eared
stiff-grown
stiff-haired
stiff-horned
stiff-ironed
stiff-jointed
stiff-jointedness
stiff-kneed
stiff-lamb disease
stiff-land
stiff-leathered
stiff-leaved
stiff-legged
stiff-limbed
stiff-lipped
stiff-minded
stiff-mud
stiff-neck
stiff-necked
stiff-necked pride
stiff-neckedly
stiff-neckedness
stiff-plate
stiff-pointed
stiff-rimmed
stiff-rumped
stiff-rusting
stiff-shanked
stiff-skirted
stiff-starched
stiff-stretched
stiff-swathéd
stiff-tailed
stiff-udderéd
stiff-veined
stiff-winged
stiff-witted
stiffen your backbone
stiffening bar
stiffening order
stiffening truss
stiffleg derrick
stifle bone
stifle joint
stifle shoe
stifle-out
stigma disk
stigmal vein
stigmatic grating spectrograph
stil-de-grain yellow
stilbene dye
stilbine color
stiletto fly
stiletto heel
stiletto-proof
stiletto-shaped
still alarm
still and all
still as a mouse
still as a statue
still as death
still box
still camera
still head
still hunt
still life
still lifes
still liquor
still more
still photograph
still return
still room
still small voice
still small voice within
still trailer
still watcher
still water
still wine
still-admired
still-birth
still-born
still-burn
still-closed
still-continued
still-continuing
still-diminishing
still-existing
still-fish
still-fisher
still-fishing
still-florid
still-flowing
still-fresh
still-gazing
still-hunt
still-hunter
still-hunting
still-improving
still-increasing
still-life
still-life painter
still-life painting
still-living
still-new
still-pagan
still-pining
still-recurring
still-refuted
still-renewed
still-repaired
still-rocking
still-room
still-sick
still-slaughtered
still-stand
still-unmarried
still-vexed
still-watching
still-young
stilling box
stilling well
stilt bug
stilt palm
stilt petrel
stilt plover
stilt sandpiper
stilt wheel
stilt-legged
stimulus coefficient
stimulus error
stimulus generalization
stimulus threshold
stimulus word
stimulus-response
stimulus-response psychology
sting bladder
sting moth
sting nettle
sting of conscience
sting ray
sting to the quick
sting winkle
stinging capsule
stinging cell
stinging defeat
stinging hair
stinging nettle
stingless bee
stink ball
stink bell
stink bomb
stink brand
stink bug
stink cat
stink fly
stink gland
stink grass
stink in the nostrils
stink out
stink trap
stink up
stink-horn
stink-pot
stinking badger
stinking cedar
stinking clover
stinking drunk
stinking iris
stinking mayweed
stinking roger
stinking smut
stinky pinkie
stipple board
stipple engraving
stipple paper
stipple streak
stipulate for
stir about
stir bird
stir feelings
stir of air
stir one's blood
stir the blood
stir the embers
stir the feelings
stir the fire
stir up
stir up a hornet's nest
stir up trouble
stir your bile
stir your stumps
stir-fry
stir-up
stirred up
stirring up
stirring-up
stirrup bar
stirrup bone
stirrup cover
stirrup cup
stirrup dram
stirrup glass
stirrup iron
stirrup jar
stirrup leather
stirrup oil
stirrup pump
stirrup strap
stirrup-vase
stitch in the side
stitch of work
stitch rivet
stitch watermark
stitch wheel
stitching horse
stochastic independence
stochastic matrix
stock account
stock assessment
stock beer
stock beet
stock block
stock board
stock book
stock buckle
stock car
stock card
stock cattle
stock certificate
stock certificate
stock change
stock clerk
stock company
stock dealer
stock dealing
stock saying
stock shot
stock soap
stock solution
stock speculation
stock speculator
stock split
stock station
stock still
stock tackle
stock the mind
stock ticker
stock type
stock up
stock vaccine
stock whaap
stock whip
stock-blind
stock-broker
stock-car
stock-car race
stock-dove
stock-dumb
stock-exchange broker
stock-fish
stock-gillyflower
stock-in-trade
stock-job
stock-jobber
stock-jobbing
stock-route
stock-still
stock-taking
stock-work
stockbroker belt
stockholder of record
stocking board
stocking cap
stocking cutter
stocking cutter tool
stocking filler
stocking frame
stocking hose
stocking knitter
stocking knitting
stocking loom
stocking machine
stocking maker
stocking making
stocking mask
stocking needle
stocking sole
stocking spinner
stocking stitch
stocking stuffer
stocking the mind
stocking trimmer
stocking weaver
stocking-foot
stocking-frame
stockless anchor
stocks and bonds
stocks machine
stoech-
stoke the fire
stoke up
stoke-hole
stole fee
stole mesh
stole-shaped
stolen goods
stolen property
stom-
stomach ache
stomach bucket
stomach condition
stomach cough
stomach piece
stomach poison
stomach pump
stomach staggers
stomach sweetbread
stomach tooth
stomach tube
stomach ulcer
stomach upset
stomach worm
stomach-ache
stomach-achy
stomach-filling
stomach-formed
stomach-hating
stomach-healing
stomach-qualmed
stomach-shaped
stomach-sick
stomach-soothing
stomach-tight
stomach-turning
stomach-twitched
stomach-weary
stomach-whetted
stomach-worn
stomat-
stomato-
stomodaeal food
stone age
stone ax
stone axe
stone bag
stone basil
stone bass
stone blue
stone boiling
stone bolt
stone borer
stone brake
stone bramble
stone breaker
stone breaking
stone brick
stone bruise
stone butter
stone canal
stone carver
stone cat
stone cell
stone china
stone circle
stone clover
stone coal
stone collar
stone color
stone contractor
stone coral
stone crab
stone crayfish
stone cricket
stone crusher
stone curlew
stone devil
stone dresser
stone dressing
stone falcon
stone fence
stone fern
stone fly
stone fox
stone fruit
stone grape
stone gray
stone green
stone grig
stone hammer
stone harmonicon
stone hawk
stone in your path
stone jug
stone leek
stone lichen
stone lifter
stone lily
stone lime
stone lugger
stone marten
stone mill
stone mint
stone money
stone oak
stone ocher
stone oil
stone orpine
stone owl
stone parsley
stone perch
stone picker
stone pine
stone pit
stone pitch
stone plover
stone proof
stone rag
stone roller
stone rue
stone run
stone runner
stone saw
stone sclerenchyma
stone sculpture
stone shifter
stone snipe
stone sucker
stone thrush
stone to death
stone toter
stone wall
stone wine
stone wire
stone writing
stone yellow
stone's throw
stone-arched
stone-asleep
stone-axe
stone-bladed
stone-blind
stone-blindness
stone-bow
stone-broke
stone-brown
stone-bruised
stone-buff
stone-built
stone-cleaving
stone-coated
stone-cold
stone-colored
stone-covered
stone-cutter
stone-cutting
stone-darting
stone-dead
stone-deaf
stone-deafness
stone-dumb
stone-dust
stone-eared
stone-eating
stone-edged
stone-eyed
stone-faced
stone-floored
stone-fruit
stone-ground
stone-hand
stone-hard
stone-headed
stone-horse
stone-lily
stone-lined
stone-living
stone-milled
stone-moving
stone-parsley
stone-paved
stone-pillared
stone-pine
stone-ribbed
stone-rolling
stone-roofed
stone-silent
stone-smickle
stone-still
stone-throwing
stone-using
stone-vaulted
stone-wall
stone-walled
stone-walling
stoned-horse
stoner-out
stoney gate
stony coral
stony heart
stony pit
stony-blind
stony-broke
stony-eyed
stony-faced
stony-hearted
stony-heartedly
stony-heartedness
stony-jointed
stony-pitiless
stony-toed
stony-winged
stooge around
stool ball
stool end
stool land
stool pigeon
stool-ball
stoop-gallant
stoop-shouldered
stooping from your high place
stop at nothing
stop bath
stop bead
stop street
stop stroke
stop tester
stop the breath
stop the clock
stop the mouth of
stop thief
stop thrust
stop time
stop to consider
stop up
stop valve
stop volley
stop watch
stop wheel
stop work
stop your ears
stop your mouth
stop-and-go light
stop-cylinder press
stop-gap
stop-go
stop-loss
stop-loss order
stop-off
stop-open
stop-watch
stope drill
stopen bottle
stopped diapason
stopped flute
stopped up
stopper bolt
stopper hole
stopper knot
stopper's knot
stopping condenser
stopping knife
stopping out of time
stopping place
stopping train
storage battery
storage bellows
storage capacity
storage cell
storage device
storage disease
storage egg
storm axis
storm bell
storm belt
storm boat
storm boot
storm breeder
storm cave
storm cellar
storm center
storm centre
storm cloud
storm clouds
storm coat
storm collar
storm cone
storm current
storm door
storm drain
storm drum
storm finch
storm flag
storm glass
storm gray
storm in
storm in a teacup
storm in a teapot
storm jib
storm kite
storm lane
storm lantern
storm mizzen
storm pennant
storm petrel
storm porch
storm rubber
storm sail
storm sash
storm serge
storm sewer
storm signal
storm stay
storm surge
storm thrush
storm track
storm tracking
storm trooper
storm troops
storm trysail
storm warning
storm wind
storm window
storm-armed
storm-beat
storm-beaten
storm-boding
storm-breathing
storm-cock
storm-drenched
storm-encompassed
storm-felled
storm-god
storm-laden
storm-lit
storm-portending
storm-presaging
storm-rent
storm-stayed
storm-swept
storm-tight
storm-tossed
storm-trooper
storm-washed
storm-wise
storm-worn
storm-wrecked
storming party
stormy petrel
stormy weather
stormy winds
story element
story hour
story line
story post
story rod
story writer
story-teller
story-writing
story-wrought
stout fellow
stout heart
stout-armed
stout-billed
stout-bodied
stout-girded
stout-hearted
stout-heartedly
stout-heartedness
stout-legged
stout-limbed
stout-looking
stout-minded
stout-ribbed
stout-sided
stout-soled
stout-stalked
stout-stomached
stout-winged
stout-worded
stove black
stove bolt
stove coal
stove distillate
stove enamel
stove glass
stove heating
stove in
stove length
stove lifter
stove oil
stove plant
stove poker
stove polish
stove-dried
stove-heated
stove-pipe
stove-warmed
stoved salt
stovepipe hat
stow away
stow down
stow it
stow net
stow-blade
stow-boating
straddle carrier
straddle mill
straddle pipe
straddle the fence
straddle truck
straddle-face
straddle-fashion
straddle-legged
straggle tooth
straggle-brained
stragling money
straight accent
straight across
straight ahead
straight and narrow
straight and narrow, the
straight angle
straight arch
straight arm lift
straight as a ruler
straight as an arrow
straight as an edge
straight away
straight bat
straight bill of lading
straight chain
straight chair
straight coil
straight course
straight deck
straight drama
straight face
straight fight
straight flush
straight forth
straight forward
straight from the shoulder
straight grain
straight hair shingle
straight jacket
straight joint
straight life insurance
straight line
straight man
straight matter
straight off
straight part
straight poker
straight razor
straight sailing
straight shooter
straight stall
straight stretch
straight thinking
straight ticket
straight time
straight to the mark
straight up
straight up and down
straight up-and-downness
straight whiskey
straight-arm
straight-backed
straight-barred
straight-barreled
straight-billed
straight-bitted
straight-bodied
straight-bodied
straight-cut
straight-drawn
straight-edge
straight-edged
straight-faced
straight-falling
straight-fibered
straight-flung
straight-flute
straight-fluted
straight-from-the-shoulder
straight-front
straight-going
straight-grained
straight-growing
straight-grown
straight-haired
straight-hairedness
straight-hemmed
straight-horned
straight-jointed
straight-laced
straight-lacedly
straight-leaved
straight-legged
straight-limbed
straight-line
straight-line-frequency
straight-lined
straight-made
straight-minded
straight-necked
straight-nosed
straight-out
straight-pull
straight-ribbed
straight-shaped
strainer vine
straining arch
straining beam
straining frame
straining piece
straining sill
strainslip cleavage
strait jacket
strait waistcoat
strait-besieged
strait-boded
strait-braced
strait-breasted
strait-breeched
strait-chested
strait-clothed
strait-coated
strait-embraced
strait-jacket
strait-knotted
strait-lace
strait-laced
strait-lacedly
strait-lacedness
strait-lacer
strait-lacing
strait-necked
strait-sleeved
strait-tied
strait-toothed
strait-waistcoat
strait-waisted
straitened circumstances
straits dollar
strand fishery
strand flat
strand former
strand line
strand plover
strand rat
strand snipe
strand wolf
strange duck
strange particle
strange thing
strange to
strange to say
strange woman
strange-achieved
strange-clad
strange-colored
strange-composed
strange-disposed
strange-fashioned
strange-favored
strange-garbed
strange-looking
strange-met
strange-plumaged
strange-sounding
strange-tongued
strange-voiced
strange-wayed
stranger's gallery
strangers' gallery
strangle hold
strangled blade
strangler tree
strangulated hernia
strap bolt
strap brake
strap drill
strap fern
strap game
strap hammer
strap hinge
strap iron
strap joint
strap key
strap oil
strap oyster
strap rail
strap railroad
strap railway
strap watch
strap work
strap-hinge
strap-laid
strap-leaved
strap-oil
strap-shaped
strapping motion
strapping plate
strategic air force
strategic bombing
strategic line
strategic materials
strategic plan
strategic point
strati-
stratificational grammar
stratified charge engine
stratified discharge
stratigraphic geology
strato-
strato-cirrus
strato-cumulus
stratocumulus castellanus
stratocumulus castellatus
stratocumulus floccus
stratocumulus lenticularis
stratosphere balloon
stratus cloud
stratus cumuliformis
stratus fractus
stratus maculosus
stratus nebulosus
straw bail
straw ballot
straw basher
straw bass
straw bid
straw bidder
straw bond
straw boss
straw cat
straw color
straw death
straw drain
straw fiddle
straw hat
straw in the wind
straw man
straw needle
straw oil
straw plait
straw ride
straw sedge
straw splitter
straw stem
straw to show the wind
straw vote
straw wedding
straw wine
straw yellow
straw-barreled
straw-boss
straw-breadth
straw-built
straw-capped
straw-colored
straw-crowned
straw-cutting
straw-dried
straw-emboweled
straw-hatted
straw-laid
straw-necked
straw-plaier
straw-plaiting
straw-roofed
straw-shoe
straw-splitting
straw-stuffed
straw-thatched
strawberry bass
strawberry blite
strawberry blond
strawberry blonde
strawberry borer
strawberry bush
strawberry cactus
strawberry clover
strawberry comb
strawberry crab
strawberry crown borer
strawberry crown moth
strawberry dish
strawberry fern
strawberry finch
strawberry fleabite
strawberry fly
strawberry geranium
strawberry guava
strawberry leaf
strawberry leaf blight
strawberry leaf roller
strawberry leaf spot
strawberry mark
strawberry moth
strawberry nettle
strawberry pear
strawberry perch
strawberry pink
strawberry raspberry
strawberry roan
strawberry root aphid
strawberry root borer
strawberry root weevil
strawberry rootworm
strawberry rust
strawberry sawfly
strawberry saxifrage
strawberry shrub
strawberry spinach
strawberry sunburn
strawberry tassel
strawberry tomato
strawberry tongue
strawberry tree
strawberry vine
strawberry weevil
strawberry-blond
strawberry-raspberry
strawberry-shrub family
strawhat circuit
strawhat theater
stray capacitance
stray current
stray energy
stray line
stray-line
streak culture
streak lightning
streak of lightning
streak of luck
streak plate
streaked-back
stream action
stream anchor
stream and dogs
stream bed
stream cable
stream capture
stream conservation
stream driver
stream forth
stream function
stream gold
stream ice
stream jam
stream of air
stream of consciousness
stream of fashion
stream of light
stream of time
stream piracy
stream the log
stream tin
stream wheel
stream-bordering
stream-drive
stream-embroidered
stream-illumed
stream-line
stream-of-consciousness
stream-of-consciousness novel
streamer aurora
streamer fly
streaming light
streaming potential
streamline flow
streams of rain
streams of sweat
street Arab
street academy
street arab
street band
street broker
street certificate
street cleaner
street coach
street cry
street door
street dress
street elbow
street fight
street floor
street game
street girl
street market
street name
street of fallen women
street orderly
street organ
street people
street piano
street plate
street price
street railway
street singer
street sweeper
street urchin
street virus
street-bred
street-cleaning
street-door
street-pacing
street-raking
street-sold
street-sprinkling
street-sweeping
street-walker
streetcar line
strength change
strength deck
strength of mind
strength of purpose
strength of will
strength-bringing
strength-conferring
strength-decaying
strength-giving
strength-increasing
strength-inspiring
strength-restoring
strength-sustaining
strength-testing
strengthening lead
strengthening card
strep throat
strepto-
streptococcus tonsilitis
stress accent
stress and strain
stress arsis
stress diagram
stress group
stress of life
stress pattern
stress reaction
stress sheet
stress-strain
stress-strain curve
stress-verse
stressed skin
stretch away to
stretch fabric
stretch forth a helping hand
stretch forth your hand
stretch mill
stretch modulus
stretch of the imagination
stretch of time
stretch out
stretch pants
stretch stockings
stretch the legs
stretch the meaning
stretch the sense
stretch the truth
stretch to
stretch your legs
stretch your luck
stretch yourself
stretch-out
stretched out
stretched tight
stretched-out
stretcher bar
stretcher bond
stretcher-bearer
stretching course
stretching everywhere
stretching of the truth
stretching out
stretching piece
stretching your luck
stretching-out
striato-
stricken dumb
stricken in years
stricken with amnesia
stricken with years
strickle bar
strict attention
strict construction
strict constructionism
strict constructionist
strict discipline
strict interpretation
strict law
strict minded
strict neutrality
strict settlement
strictly between us
strictly cash
strictly decreasing function
strictly increasing function
strictly speaking
stride-legged
strident-voiced
striding compass
striding level
strife-breeding
strife-healing
strife-stirring
strike a balance
strike a bargain
strike a blow
strike a light
strike a pose
strike a responsive chord
strike a rich vein
strike against
strike all of a heap
strike an attitude
strike at
strike at the root of
strike back
strike benefit
strike bill
strike blind
strike block
strike board
strike camp
strike dead
strike down
strike dumb
strike enforcer
strike fault
strike figure
strike fire
strike hands
strike hard
strike home
strike in
strike in with
strike insurance
strike it lucky
strike it rich
strike joint
strike knife
strike me dead
strike measure
strike mute
strike note
strike off
strike off the roll
strike off the rolls
strike oil
strike out
strike out at
strike out for
strike out for yourself
strike pan
strike pay
strike plane
strike plate
strike radar scanner
strike root
strike root in
strike shift
strike slip
strike tent
strike terror into
strike the death knell of
strike the eye
strike the first blow
strike the flag
strike the mind
strike through
strike up
strike up a friendship
strike up a tune
strike up the band
strike upon
strike valley
strike while the iron is hot
strike with awe
strike with wonder
strike you
strike you as
strike you right
strike your colors
strike your fancy
strike your flag
strike zone
strike-a-light
strike-anywhere match
strike-out
striker boat
striker of poses
striker plate
striker-out
striker-up
striking alteration
striking angle
striking bag
striking base
striking board
striking circle
striking distance
striking hammer
striking out
striking pin
striking plate
striking reed
striking resemblance
striking solution
striking stile
striking success
striking train
striking-out machine
strikingly like
string along
string along with
string alphabet
string band
string bass
string bead
string bean
string block
string choir
string correspondent
string course
string development
string diapason
string figure
string galvanometer
string instrument
string insulator
string lead
string leaf
string line
string musician
string orchestra
string organ
string out
string pea
string plate
string player
string pottery
string proof
string pump
string quartet
string section
string stop
string telephone
string tie
string together
string tone
string trio
string up
string-binding
string-colored
string-soled
string-tailed
string-toned
stringed instrument
stringer bar
stringer lode
stringer plate
stringer strake
stringing course
stringing out
stringy kelp
stringy sap
stringy-bark
stringybark pine
strinking-out
strip artist
strip away
strip bare
strip cartoon
strip clean
strip club
strip count
strip cropping
strip down
strip farm
strip farming
strip for action
strip lighting
strip line
strip map
strip method
strip mill
strip mine
strip mining
strip of office
strip of rank
strip off
strip out
strip pit
strip planting
strip poker
strip printing
strip survey
strip tease
strip template
strip to the buff
strip you of your illusions
strip-crop
strip-cropping
strip-teaser
stripe blight
stripe canker
stripe rust
stripe smut
striped bass
striped grass
striped hyena
striped maple
striped marlin
striped snake
striped spermophile
striped squirrel
striped-leaved
striped atom
striped bare
striped down
striped of
striped of illusion
striped to the buff
stripper-harvester
stripping bare
stripping down
stripping liquor
stripping of rank
strive about
strive against
strive for
strive to
strive with
strobe light
strobe lighting
stroboscopic light
stroboscopic photography
stroke culture
stroke hole
stroke oar
stroke oarsman
stroke of death
stroke of lightning
stroke of luck
stroke of policy
stroke of the hour
stroke of the pen
stroke of wit
stroke of work
stroke play
stroke stitch
stroker-in
strolling gait
strolling minstrel
strolling player
strong accumulation point
strong argument
strong arm
strong as a horse
strong as a lion
strong as an ox
strong as brandy
strong as flesh and blood
strong as strong
strong belief
strong bid
strong breeze
strong derived set
strong drink
strong flair
strong gale
strong hand
strong in
strong interaction
strong language
strong man
strong market
strong meat
strong nerves
strong point
strong pull
strong relief
strong right hand
strong room
strong suit
strong water
strong waters
strong wind
strong-ankled
strong-arm
strong-arm man
strong-arm tactics
strong-armed
strong-armer
strong-backed
strong-bodied
strong-boned
strong-box
strong-breathed
strong-decked
strong-elbowed
strong-featured
strong-fibered
strong-fisted
strong-flavored
strong-handed
strong-headed
strong-jawed
strong-jointed
strong-limbed
strong-looking
strong-lunged
strong-man
strong-minded
strong-mindedly
strong-mindedness
strong-nerved
strong-pointed
strong-quartered
strong-ribbed
strong-scented
strong-seated
strong-set
strong-sided
strong-smelling
strong-stapled
strong-stomached
strong-tasted
strong-tasting
strong-tempered
strong-tested
strong-trunked
strong-voiced
strong-weak
strong-willed
strong-winged
strong-wristed
strongbox security
strontia digger
strontia process
strontian white
strontian yellow
strontium 90
strontium hydroxide
strontium monoxide
strontium nitrate
strontium oxide
strontium process
strontium salicylate
strontium unit
strontium white
strontium yellow
struck all of a heap
struck jury
struck measure
struck up
struck with
struck with surprise
structural botany
structural drag
structural engineer
structural engineering
structural fatigue
structural formula
structural gene
structural geology
structural grammar
structural iron
structural linguistics
structural meaning
structural mill
structural outline
structural polysaccharide
structural psychology
structural shop
structural steel
structural-steel
structure contours
struggle against
struggle for
struggle for existence
struggle up
struggle with
strung out
strung up
strut beam
strut your stuff
strutting piece
stub axle
stub feather
stub file
stub hoe
stub iron
stub mortise
stub nail
stub pen
stub short
stub shot
stub switch
stub tenon
stub tooth
stub track
stub twist
stub your toe
stub your toe upon
stub-bearded
stub-end
stub-end feeder
stub-pointed
stub-thatched
stub-toed
stub-wing stabilizer
stubble crop
stubble field
stubble goose
stubble mulch
stubble plow
stubble pulverizer
stubble quail
stubble rake
stubble shaver
stubble spurge
stubble-fed
stubble-loving
stubble-mulch farming
stubborn as a mule
stubborn fact
stubborn-chaste
stubborn-hard
stubborn-minded
stubborn-shafted
stubborn-stout
stubby-fingered
stucco pointer
stucco-adorned
stucco-fronted
stucco-molded
stucco-walled
stuck fast
stuck on
stuck on yourself
stuck-up
stuck-upness
stuck-upper
stuck-uppish
stuck-uppishness
stuck-uppy
stud block
stud bolt
stud book
stud box
stud chain
stud driver
stud fee
stud link
stud mating
stud poker
stud print
stud rivet
stud scab
stud screw
stud wall
stud wheel
stud-horse
stud-mare
stud-pink
stud-sail
studded tire
studding bolt
studding sail
studding-sail
studding-sail halyard bend
student adviser
student assistant
student council
student glider
student government
student hour
student lamp
student nurse
student pastor
student teacher
student teaching
student union
student volunteer
studhorse poker
studio apartment
studio couch
studio plant
study for
study group
study hall
study in still life
study to
study to be
study up
study up on
study with
study your part
study-bearing
study-bred
study-given
study-loving
study-racked
study-worn
stuff and nonsense
stuff chest
stuff engine
stuff gown
stuff hat
stuff in
stuff the mind
stuff the mind with
stuff up
stuff with knowledge
stuff yourself
stuff-chest
stuff-gownsman
stuff-over
stuffed cabbage
stuffed derma
stuffed eggs
stuffed grape leaves
stuffed peppers
stuffed shirt
stuffed to the gills
stuffed tomatoes
stuffed up
stuffed-over
stuffing and stripping
stuffing box
stuffing nut
stuffing-box recess
stuffy weather
stultify yourself
stumble on
stumble upon
stumbling block
stumbling stone
stumbling-block
stump bed
stump burning
stump da
stump excursion
stump extractor
stump foot
stump it
stump joint
stump jumper
stump mast
stump mortise
stump orator
stump puller
stump ranch
stump rot
stump speaker
stump speaking
stump speech
stump spud
stump sucker
stump tail
stump tenon
stump the country
stump topmast
stump tracery
stump tree
stump up
stump wood
stump work
stump-fingered
stump-footed
stump-jump
stump-jump plow
stump-jumping plow
stump-legged
stump-nosed
stump-rooted
stump-tail
stump-tailed
stump-tailed lizard
stumping tour
stunner hitch
stunt flier
stunt flying
stunt girl
stunt man
stunt woman
stupefied with boredom
stupefyingly boring
stupid ass
stupid grin
stupid thing
stupid work
stupid-acting
stupid-headed
stupid-honest
stupid-looking
stupid-sure
stuporous melancholia
stuporous with boredom
sturdy as an ox
sturdy-chested
sturdy-legged
sturdy-limbed
sturm und drang
styl-
style branch
style galant
style of writing
style pen
style sheet
style the hair
style-conscious
style-consciousness
styles of
stylistic analysis
stylo-
stylograph pen
stylographic pen
styloid process
styour throw
styptic pencil
styrallyl acetate
styrene resin
suan pan
suarrow nut
suave-looking
suave-mannered
suave-spoken
sub arid
sub for
sub judice
sub post office
sub rosa
sub specie aeternitatis
sub verbo
sub voce
sub-
sub-Andean
sub-Atlantic
sub-Carpathian
sub-Christian
sub-Himalayan
sub-Pontine
sub-Pyrenean
sub-agent
sub-arch
sub-assembly
sub-base
sub-constable
sub-district
sub-edit
sub-editor
sub-head
sub-human
sub-jugate
sub-lease
sub-let
sub-level
sub-lieutenant
sub-machine-gun
sub-man
sub-officer
sub-prefect
sub-rosa
sub-title
sub-treasurer
sub-treasury
sub-war
sub-zero
subacute rheumatism
subaerial deposit
subaltern genus
subarctic current
subassembly plant
subatomic particle
subatomic particles
subclavian artery
subclavian groove
subclavian vein
subclinical infection
subcloud car
subconscious drive
subconscious knowledge
subconscious mind
subconscious perception
subconscious self
subconscious urge
suberic acid
subero-
subhymenial layer
subject case
subject catalog
subject catalogue
subject for thought
subject index
subject matter
subject of thought
subject substantive
subject term
subject to
subject to a duty
subject to a fee
subject to a tax
subject to call
subject to close scrutiny
subject to death
subject yourself
subject-matter
subject-object
subject-objectivity
subject-raising
substitution therapy
substitution vein
subsurface tillage
subtarget machine
subtense bar
subter-
subterranean river
subtle body
subtle color
subtle distinction
subtle influence
subtle odor
subtle wit
subtle-brained
subtle-cadenced
subtle-fingered
subtle-headed
subtle-looking
subtle-meshed
subtle-minded
subtle-nosed
subtle-paced
subtle-scented
subtle-shadowed
subtle-souled
subtle-thoughted
subtle-tongued
subtle-witted
subtraction logarithm
subtraction mark
subtraction sign
subtractive color
subtractive primary
subtractive process
subtropical anticyclone
subtropical high
suburban market
subvalent electrons
subzero weather
succade gourd
succeed in
succeed to
succeed to the throne
succeed with
succes d'estime
succes de scandale
success fou
success story
successful advocate
successful defender
successful person
succession duty
succession of ideas
succession of thought
succession of time
succession state
succin-
succinic acid
succino-
succory blue
succumb to
such and such
such as
such being the case
such stuff as dreams are made on
such stuff as dreams are made on
such-and-such
such-like
suck dry
suck fly
suck in
suck into
suck off
suck out
suck the blood from
suck the blood of
suck up
suck up to
suck your blood
suck your breath
suck your wind
suck-
suck-bottle
suck-egg
suck-in
sucked dry
sucked into
sucker bait
sucker foot
sucker for
sucker list
sucker rod
sucket fork
sucking louse
sucking pig
sucking-fish
suffer for
suffer hanging
suffer hearing impairment
suffer hearing loss
suffer loss
suffer pain
suffer pangs of jealousy
suffer the consequences
suffer the penalty
sufferance wharf
suffering angst
suffering dread
suffering from amnesia
suffering nausea
suffice to yourself
sufficient condition
sufficient for
sufficient to
sufficient unto
suffused with light
sugar almond
sugar ant
sugar apple
sugar ash
sugar bag
sugar baker
sugar bakery
sugar basin
sugar bean
sugar beet
sugar bird
sugar bowl
sugar brake
sugar bush
sugar cake
sugar camp
sugar candy
sugar cane
sugar cookie
sugar corn
sugar daddy
sugar diabetes
sugar engineering
sugar fish
sugar glider
sugar grape
sugar grass
sugar grove
sugar gum
sugar jack
sugar jack process
sugar loaf
sugar maker
sugar making
sugar maple
sugar mill
sugar mite
sugar mule
sugar nippers
sugar of lead
sugar of milk
sugar off
sugar orchard
sugar over
sugar palm
sugar pea
sugar pear
sugar pine
sugar planter
sugar planting
sugar pumpkin
sugar puncture
sugar refiner
sugar refinery
sugar refining
sugar shell
sugar sifter
sugar sorghum
sugar spoon
sugar squirrel
sugar tongs
sugar tree
sugar vinegar
sugar wrack
sugar-baker
sugar-beet webworm
sugar-bird
sugar-boiling
sugar-bush
sugar-candy
sugar-cane
sugar-cane beetle
sugar-cane borer
sugar-cane gummosis
sugar-cane mosaic
sugar-cane root disease
sugar-cane smut
sugar-chopped
sugar-chopper
sugar-coat
sugar-coated
sugar-coating
sugar-colored
sugar-cured
sugar-destroying
sugar-growing
sugar-laden
sugar-lipped
sugar-loaded
sugar-loaf
sugar-loafed
sugar-loving
sugar-making
sugar-maple
sugar-maple borer
sugar-mouthed
sugar-plum
sugar-producing
sugar-sop
sugar-sweet
sugar-teat
sugar-tit
sugar-topped
sugar-water
sugar-yielding
sugared almond
sugarhouse molasses
sugaring off
suggest itself
suggest the earmarks of
suggestio falsi
suggestion therapy
suggestive of
sui generis
sui juris
suicidal despair
suicide clause
suicide club
suicide pact
suicide pilot
suicide plane
suicide squeeze
suicide squeeze play
suit and service
suit at law
suit case
suit court
suit down to the ground
suit in law
suit of armor
suit of clothes
suit service
suit the action to the word
suit the occasion
suit the season
suit the time
suit yourself
suit-dress
suitable for
suitable occasion
suitable time
suite of dances
suite of rooms
sujee-mujee
suji-muji
sulcato-
sulf-
sulfa drug
sulfa drugs
sulfanilic acid
sulfanilyl radical
sulfate paper
sulfate process
sulfate pulp
sulfide dye
sulfinyl group
sulfinyl radical
sulfite paper
sulfite process
sulfite pulp
sulfo group
sulfo radical
sulfon-
sulfonic acid
sulfonyl chloride
sulfur black
sulfur butterfly
sulfur dioxide
sulfur dye
sulfur trioxide
sulfur-bottom
sulfur-bottom whale
sulfur-colored
sulfur-flower
sulfur-yellow
sulfurated potash
sulfureted hydrogen
sulfuric acid
sulfuric anhydride
sulfuric ether
sulfurous acid
sulfurated potash
sulfuryl chloride
sulfuryl group
sulfuryl radical
sulky lister
sulky plow
sulky-shaped
sulla clover
sullage head
sullen looks
sullen rabies
sullen-browed
sullen-eyed
sullen-looking
sullen-natured
sullen-seeming
sullen-sour
sullen-visaged
sullen-wise
sulph-
sulpha drug
sulphanilic acid
sulphate green
sulphate paper
sulphate process
sulphate pulp
sulphate ultramarine
sulphato-
sulphide color
sulphide dye
sulphide toning
sulphindigotic acid
sulphine color
sulphine yellow
sulphite brown
sulphite pulp
sulpho salt
sulpho-
sulpho-acid
sulpho-salt
sulphocarbon oil
sulphon cyanine
sulphon cyanine black
sulphononic acid
sulphonium compound
sulphur acid
sulphur alcohol
sulphur bacteria
sulphur black
sulphur butterfly
sulphur candle
sulphur chloride
sulphur color
sulphur dioxide
sulphur dye
sulphur ether
sulphur family
sulphur granule
sulphur lime
sulphur match
sulphur monochloride
sulphur oil
sulphur olive oil
sulphur ore
sulphur paste
sulphur plant
sulphur rain
sulphur rose
sulphur shower
sulphur subchloride
sulphur toning
sulphur trioxide
sulphur vivum
sulphur water
sulphur whale
sulphur yellow
sulphur-bearing
sulphur-bellied
sulphur-bottom
sulphur-bottom whale
sulphur-breasted
sulphur-colored
sulphur-containing
sulphur-crested
sulphur-flower
sulphur-hued
sulphur-impregnated
sulphur-scented
sulphur-smoking
sulphur-tinted
sulphur-tipped
sulphureo-
sulphureo-aerial
sulphuretted hydrogen
sulphuric acid
sulphurous acid
sultan flower
sultan red
sultana bird
sultana roll
sultry weather
sum and substance
sum of money
sum of things
sum to
sum total
sum und substance
sum up
sum up your case
sum-total
sum-up
sumac family
sumac wax
summa cum laude
summary court-martial
summary judgment
summary justice
summary negative
summary offence
summary proceeding
summation curve
summation method
summation tone
summer aster
summer barley
summer camp
summer cholera
summer complaint
summer coot
summer crookneck
summer cypress
summer day
summer dew grass
summer diarrhea
summer disease
summer duck
summer egg
summer ermine
summer fallow
summer finch
summer flounder
summer forest
summer grape
summer hail
summer haw
summer heat
summer heliotrope
summer herring
summer house
summer hyacinth
summer kitchen
summer lightning
summer lilac
summer oil
summer parlor
summer pudding
summer queening
summer rape
summer rash
summer redbird
summer resort
summer sausage
summer savory
summer school
summer sheldrake
summer snipe
summer snowflake
summer soldier
summer solstice
summer sore
summer spore
summer squash
summer stock
summer stone
summer suit
summer sweet
summer tanager
summer teal
summer theater
summer time
summer tree
summer truffle
summer wagtail
summer warbler
summer wheat
summer yellowbird
summer yellowlegs
summer's day
summer-bird
summer-blanced
summer-breathing
summer-brewed
summer-bright
summer-cloud
summer-dried
summer-fallow
summer-fed
summer-felled
summer-flowering
summer-grazed
summer-house
summer-leaping
summer-like
summer-lived
summer-loving
summer-made
summer-ripening
summer-seeming
summer-shrunk
summer-staying
summer-stir
summer-stricken
summer-sweet
summer-swelling
summer-threshed
summer-tide
summer-tilled
summer-time
summer-up
summer-weight
summing register
summing up
summing-up
summit canal
summit conference
summit level
summit yard
summit-level canal
summon forth
summon spirits
summon up
summon up courage
summons case
summons of death
summons-proof
summum bonum
summum genus
summum jus
sum cut
sum fuse
sum pit
sum pump
sum shot
sum winze
sumping cut
sumping shot
sumpter horse
sumpter mule
sumptuary law
sumptuary laws
sumptuary ordinances
sums total
sun animalcule
sun arc
sun bark
sun bath
sun bather
sun bear
sun bittern
sun blind
sun blindness
sun burner
sun clock
sun compass
sun crack
sun cult
sun cure
sun dance
sun date
sun deck
sun disc
sun disk
sun dog
sun fern
sun fever
sun flag
sun fruit
sun gall
sun gear
sun gem
sun god
sun gods
sun grass
sun grebe
sun hat
sun helmet
sun hemp
sun in glory
sun in splendor
sun lamp
sun letter
sun letters
sun lounge
sun moss
sun pan
sun parlor
sun perch
sun picture
sun pillar
sun plane
sun plant
sun porch
sun power
sun print
sun printing
sun rose
sun shower
sun side
sun snake
sun spark
sun spider
sun spot
sun spurge
sun star
sun suit
sun tan
sun temperature
sun time
sun trap
sun tree
sun trout
sun valve
sun view
sun visor
sun watch
sun wheel
sun worship
sun worshiper
sun worshiping
sun yourself
sun-affronting
sun-arrayed
sun-awakened
sun-baked
sun-bathe
sun-bathed
sun-beat
sun-beaten
sun-begotten
sun-blackened
sun-blanch
d sun-blind
sun-blistered
sun-blown
sun-born
sun-bred
sun-bright
sun-bringing
sun-broad
sun-bronzed
sun-brown
sun-browned
sun-clear
sun-confronting
sun-courting
sun-cracked
sun-crowned
sun-cure
sun-cured
sun-dazzling
sun-delighting
sun-descended
sun-dial
sun-drawn
sun-dried
sun-dry
sun-eclipsing
sun-excluding
sun-expelling
sun-exposed
sun-eyed
sun-faced
sun-feathered
sun-filled
sun-fish
sun-flagged
sun-flaring
sun-flooded
sun-fringed
sun-gazed
sun-gazing
sun-gilt
sun-god
sun-graced
sun-graze
sun-grazer
sun-grebe
sun-grown
sun-heated
sun-illumined
sun-kissed
sun-loved
sun-loving
sun-made
sun-marked
sun-melted
sun-nursed
sun-outshining
sun-pain
sun-painted
sun-paled
sun-praising
sun-printed
sun-projected
sun-ray
sun-red
sun-resembling
sun-scorched
sun-scorching
sun-shading
sun-shot
sun-shunning
sun-sodden
sun-specs
sun-spot
sun-staining
sun-steeped
sun-struck
sun-swart
sun-swept
sun-tanned
sun-tight
sun-up
sun-warm
sun-warmed
sun-withered
sunburst plaiting
sunburst pleats
sunday punch
sunday school
sunday-go-to-meeting
sunday-school
sunder tree
sundew family
sunda tree
sundry shop
sundry-colored
sundry-patterned
sundry-shaped
sunflower chest
sunflower oil
sunflower oil cake
sunflower tree
sunflower yellow
sung mass
sunk fence
sunk garden
sunk in iniquity
sunk in oblivion
sunk key
sunk relief
sunken garden
sunken part
sunken place
sunlight burner
sunn hemp
sunny side
sunny weather
sunny-clear
sunny-colored
sunny-faced
sunny-haired
sunny-looking
sunny-natured
sunny-red
sunny-side up
sunny-spirited
sunny-sweet
sunny-warm
sunray pleats
sunrise service
sunrise wall
sunrise watch
sunset brown
sunset clam
sunset glow
sunset gun
sunset of your days
sunset shell
sunset wall
sunset-blue
sunset-flushed
sunset-lighted
sunset-purpled
sunset-red
sunset-ripened
sunshine roof
sunshine-showery
sunshiny weather
sunspot cycle
sunspot numbers
sunspot period
sunspot zone
sunt tree
suo jure
suo loco
sup off
sup up
super cool
super royal
super royal octavo
super royal quarto
super-
super-acid
super-cooling
super-decompound
super-duper
super-pumper
super-royal
super-smooth
super-tanker
supercharged engine
supercilious superior
supercompression engine
superdense theory
superficial extension
superficial soundness
superficially sound
supergiant star
superheated air
superheterodyne circuit
superheterodyne receiver
superhigh frequency
superintendent engineer
superintendent general
superior conjunction
superior court
superior courts of Westminster
superior general
superior goods
superior planet
superior-general
superiority complex
superiors general
superiors-general
supernatural being
supernatural virtue
supernatural virtues
supernatural, the
supero-
supero-occipital
superposition principle
supersonic aerodynamics
supersonic combat plane
supersonic flight
supersonic flow detection
supersonic jet
supersonic research plane
supersonic rocket
supersonic speed
supersonic transport
supersonic wings
superstition-proof
superstructure deck
supervisory control
supper club
supple-jack
supple-kneed
supple-limbed
supple-minded
supple-mouth
supple-sinewed
supple-sliding
supple-visaged
supple-working
supple-wristed
supplemental plumage
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
supra-esophageal
supra-ethmoid
supra-intestinal
supracardinal vein
supralinear punctuation
supranational government
suprapartisan leadership
suprarational automatism
suprarational automatist
suprarenal gland
suprasegmental phoneme
suprasternal notch
supratrochlear nerve
supreme being
supreme commander
supreme court
supreme principle
supreme principle of pure reason
supreme sacrifice
supreme sauce
supreme soul
sur le tapis
sur-
sur-royal
suranal plate
surbased arch
surdo-mute
sure as can be
sure as death
sure as death and taxes
sure as fate
sure as hell
sure as shooting
sure as the devil
sure bet
sure card
sure crop
sure enough
sure loser
sure of yourself
sure sign
sure success
sure thing
sure winner
sure-aimed
sure-enough
sure-fire
sure-footed
sure-footedly
sure-footedness
sure-founded
sure-grounded
sure-nosed
sure-presaging
sure-refuged
sure-seeing
sure-set
sure-settled
sure-slow
sure-steeled
surest thing you know
surety bond
surf bum
surf caster
surf casting
surf clam
surf coot
surf duck
surf fish
surf line
surf plant
surf scoter
surf shiner
surf smelt
surf snipe
surf whiting
surf-battered
surf-beaten
surf-bound
surf-riding
surf-showered
surf-sunk
surf-swept
surf-tormented
surf-vexed
surf-washed
surf-wasted
surf-white
surf-worn
surface analyzer
surface anatomy
surface appearance
surface board
surface boundary layer
surface carburetor
surface card
surface color
surface condenser
surface cooler
surface density
surface energy
surface extension
surface fire
surface friction
surface friction drag
surface gauge
surface gravity
surface integral
surface layer
surface mail
surface measure
surface microscope
surface noise
surface of light and shade
surface of revolution
surface paper
surface plate
surface printing
surface quality
surface radar
surface railway
surface resistance
surface resistivity
surface rib
surface show
surface strain
surface structure
surface switch
surface tension
surface texture
surface wave
surface yeast
surface-active
surface-active agent
surface-bent
surface-bound electron
surface-coated
surface-damaged
surgical technique
surgical treatment
surmounted arch
surplice fee
surplus state
surplus value
surplus-age
surprise attack
surprise ending
surprise package
surprise party
surrealist tachism
surrealist tachist
surrender charge
surrender one's colors
surrender value
surrender your life
surround verge
sursum corda
surveillance radar
survey course
surveying sextant
surveyor general
surveyor's arrow
surveyor's chain
surveyor's compass
surveyor's dial
surveyor's level
surveyor's measure
survival of the fittest
survival rate
survival value
survive or perish
survivorship annuity
sus per coll
susceptible to
susceptive to
suspend judgment
suspend operations
suspended animation
suspended cadence
suspended sentence
suspendender belt
suspense account
suspense drama
suspense ledger
suspense story
suspension bridge
suspension colloid
suspension insulator
suspension of civil rights
suspension of disbelief
suspension of hostilities
suspension periods
suspension point
suspension points
suspensive veto
suspensory ligament
suspensory veto
suspicion-proof
sussex spaniel
sustain a part
sustain someone's side
sustained action
sustained activity
sustained note
sustaining pedal
sustaining program
sustentation fund
suture needle
suum cuique
suwarrow nut
svarabhakti vowel
swab stick
swaddling bands
swaddling clothes
swaddling-band
swaddling-clothes
swaddling-clouts
swag belly
swag-bellied
swage block
swage bolt
swage-set
swagger coat
swagger stick
swagger-
swago bass
swallow an insult
swallow anything
swallow dive
swallow fish
swallow flycatcher
swallow hawk
swallow hole
swallow hook
swallow it
swallow plover
swallow roller
swallow shrike
swallow stone
swallow the bitter pill
swallow the pill
swallow thorn
swallow up
swallow warbler
swallow whole
swallow your dust
swallow your pride
swallow your words
swallow-fork
swallow-hole
swallow-tail
swallow-tailed
swallow-tailed coat
swallow-tailed kite
swallow-wing
swami house
swamp andromeda
swamp angel
swamp apple
swamp ash
swamp azalea
swamp bay
swamp beggar-tick
swamp birch
swamp black gum
swamp blackberry
swamp blackbird
swamp blueberry
swamp boat
swamp brake
swamp broom
swamp buggy
swamp buttercup
swamp buttonwood
swamp cabbage
swamp cedar
swamp chess
swamp chestnut oak
swamp cottonwood
swamp crake
swamp cypress
swamp deer
swamp dewberry
swamp dock
swamp dogwood
swamp elm
swamp evergreen
swamp fern
swamp fever
swamp globeflower
swamp gooseberry
swamp grape
swamp gum
swamp hare
swamp harrier
swamp hawk
swamp hellebore
swamp hen
swamp hickory
swamp holly
swamp honeysuckle
swamp hook
swamp hornbeam
swamp itch
swamp laurel
swamp lily
swamp locust
swamp loosestrife
swamp lover
swamp magnolia
swamp mahogany
swamp mallow
swamp maple
swamp milkweed
swamp moss
swamp oak
swamp ore
swamp owl
swamp partridge
swamp pheasant
swamp pine
swamp pink
swamp poplar
swamp post oak
swamp potato
swamp privet
swamp quail
swamp rabbit
swamp red bay
swamp robin
swamp rose
swamp rose mallow
swamp sassafras
swamp saxifrage
swamp silkweed
swamp sparrow
swamp spleenwort
swamp spruce
swamp squawweed
swamp sumac
swamp sunflower
swamp tea
swamp thistle
swamp tickseed
swamp tupelo
swamp turnip
swamp warbler
swamp white cedar
swamp white oak
swamp willow
swamp willow herb
swamp wire grass
swamp-dwelling
swamp-growing
swamp-loving
swamp-oak
swamping resistance
swan animalcule
swan boat
swan dive
swan goose
swan knight
swan maiden
swan mussel
swan neck
swan neck pediment
swan orchid
swan pan
swan potato
swan shift
swan shot
swan song
swan's down
swan's neck
swan's neck pediment
swan's-down
swan-bosomed
swan-clad
swan-drawn
swan-eating
swan-fashion
swan-hopper
swan-hopping
swan-like
swan-mark
swan-neck
swan-pan
swan-plumed
swan-poor
swan-proud
swan-sweet
swan-tuned
swan-upper
swan-upping
swan-white
swan-winged
swanking stick
swanskin calico
swap hook
swap horses
swap places with
sward-cut
sward-cutter
swarm cell
swarm over
swarm spore
swarm up
swarm with
swart star
swartkranz ape-man
swash bulkhead
swash channel
swash letter
swash plate
swathing band
swathing clothes
sway bar
sway boat
sway brace
sway bracing
sway pole
sway-
sway-back
sway-backed
swear and affirm
swear at
swear by
swear by bell
swear falsely
swear in
swear like a sailor
swear like a trooper
swear off
swear on the Bible
swear out
swear the truth
swear to
swear to God
swear to a belief
swear to goodness
swear-word
swearer-in
swearing off
sweat and slave
sweat and stew
sweat bath
sweat bee
sweat blood
sweat gland
sweat it
sweat it out
sweat leather
sweat like a horse
sweat like a trooper
sweat lodge
sweat of your brow
sweat off
sweat out
sweat over
sweat pad
sweat pants
sweat room
sweat shirt
sweat shop
sweat socks
sweat stock
sweat suit
sweat-house
sweater girl
sweater shop
sweating iron
sweating sickness
sweating stock
sweating system
sweating-sickness
swede turnip
swedish massage
swedish movements
swedish turnip
swee-swee
swee-sweet
sweep along
sweep aside all obstacles
sweep away
sweep check
sweep generator
sweep hand
sweep head
sweep mill
sweep net
sweep of time
sweep off your feet
sweep out
sweep plate
sweep point
sweep rake
sweep seine
sweep seining
sweep smelter
sweep the strings
sweep ticket
sweep under the rug
sweep up
sweep you off your feet
sweep-chimney
sweep-oar
sweep-second
sweeping change
sweeping net
sweeping process
sweeping score
sweeping statement
sweet William
sweet almond
sweet almond oil
sweet alyssum
sweet and pungent
sweet and sour
sweet as a nut
sweet as a rose
sweet as honey
sweet as sugar
sweet basil
sweet bay
sweet birch oil
sweet calamus
sweet cassava
sweet cherry
sweet chestnut
sweet chocolate
sweet cicely
sweet cider
sweet clover
sweet coltsfoot
sweet corn
sweet crab apple
sweet false camomile
sweet father of soft rest
sweet fern
sweet flag
sweet gale
sweet grass
sweet gum
sweet marjoram
sweet marten
sweet mock orange
sweet nature
sweet nothings
sweet oil
sweet oleander
sweet on
sweet orange
sweet patootie
sweet pea
sweet pepper
sweet pepper bush
sweet pepperbush
sweet pitahaya
sweet potato
sweet reason
sweet reasonableness
sweet reed
sweet reed grass
sweet revenge
sweet savor
sweet scabious
sweet shop
sweet singer
sweet sixteen
sweet sleep
sweet smell
sweet sorghum
sweet spire
sweet spirit of nitre
sweet stand
sweet stuff
sweet sucker
sweet sultan
sweet talk
sweet talker
sweet temper
sweet tongue
sweet tooth
sweet upon
sweet vernal grass
sweet viburnum
sweet water
sweet william
sweet william catchfly
sweet wine
sweet woodruff
sweet words
sweet wormwood
sweet-almond
sweet-almond oil
sweet-and-sour
sweet-and-sour sauce
sweet-beamed
sweet-bitter
sweet-bleeding
sweet-blooded
sweet-breath
sweet-breathed
sweet-breathing
sweet-brier
sweet-bright
sweet-charming
sweet-chaste
sweet-complaining
sweet-conditioned
sweet-corn wilt
sweet-curd
sweet-dispositioned
sweet-eyed
sweet-faced
sweet-featured
sweet-field
sweet-flavored
sweet-flowered
sweet-flowering
sweet-flowing
sweet-gale
sweet-leafed
sweet-lipped
sweet-looking
sweet-minded
sweet-murmuring
sweet-natured
sweet-numbered
sweet-orange oil
sweet-pea streak
sweet-pickle
sweet-piercing
sweet-potato beetle
sweet-potato borer
sweet-potato scurf
sweet-potato sphinx
sweet-potato weevil
sweet-potato worm
sweet-recording
sweet-roasted
sweet-sacred
sweet-sad
sweet-savored
sweet-scented
sweet-seasoned
sweet-set
sweet-shaped
sweet-singing
sweet-smelled
sweet-smelling
sweet-smiling
sweet-sop
sweet-souled
sweet-sounded
sweet-sounding
sweet-sour
sweet-spoken
sweet-spun
sweet-suggesting
sweet-sweet
sweet-talk
sweet-talking
sweet-tasted
sweet-tasting
sweet-tempered
sweet-temperedly
sweet-temperedness
sweet-throat
sweet-throated
sweet-toned
sweet-tongued
sweet-toothed
sweet-touched
sweet-tulk
sweet-tuned
sweet-voiced
sweet-warbling
sweet-whispered
sweet-william
sweet-wort
sweeten the kitty
sweetheart agreement
sweetheart contract
sweetheart neckline
sweetie pie
sweetleaf family
sweetness and light
sweetness of life
sweetness und light
sweets candy
sweetwood bark
swell box
swell dash
swell front
swell head
swell it
swell mob
swell organ
swell out
swell pedal
swell piece
swell shark
swell the ranks of
swell with emotion
swell-
swell-butted
swell-front
swell-headed
swell-headedness
swell-mobsman
swelled head
swelled-gelatin
swelled-gelatin process
swelled-headed
swelled-headedness
swelling utterance
s weltering heat
swept deck
swept up
swept-back
swept-forward
swift as an arrow
swift boat
swift fox
swift moth
swift rate
swift shrike
swift-advancing
swift-brought
swift-burning
swift-changing
swift-concerted
swift-declining
swift-effected
swift-fated
swift-finned
swift-flowing
swift-flying
swift-foot
swift-footed
swift-frightful
swift-glancing
swift-gliding
swift-handed
swift-heeled
swift-hoofed
swift-judging
swift-lamented
swift-marching
swift-paced
swift-posting
swift-recurring
swift-revenging
swift-running
swift-rushing
swift-seeing
swift-sliding
swift-slow
swift-spoken
swift-starting
swift-stealing
swift-streamed
swift-swimming
swift-tongued
swift-winged
swiftering line
swill down
swill up
swill-bowl
swill-tub
swim against the current
swim bladder
swim bow
swim fin
swim fins
swim in
swim mask
swim suit
swim upstream
swim with the current
swim with the stream
swim with the tide
swim-bladder
swimmer's itch
swimming bath
swimming bell
swimming bladder
swimming costume
swimming crab
swimming eyes
swimming funnel
swimming hole
swimming of the head
swimming plate
swimming pool
swimming suit
swimming tank
swimming trunks
swimming upstream
swindle sheet
swine back
swine cress
swine dysentery
swine erysipelas
swine fever
swine flu
swine grass
swine itch
swine plague
swing round the circle
swing saw
swing shift
swing shifter
swing team
swing the deal
swing the stern
swing tool
swing toward
swing train
swing vote
swing wheel
swing-
swing-jointed
swing-swang
swing-tree
swing-wing
swinging bar
swinging basin
swinging boom
swinging both ways
swinging buoy
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swinging tow
swinish gluttony
swinish multitude
swipe at
swirl bob
swirl the senses
swish tail
swish-
swish-swash
swiss muslin
swiss roll
swiss steak
switch box
switch cane
switch cast
switch engine
switch grass
switch hitter
switch hook
switch knife
switch line
switch off
switch off the light
switch on
switch on the light
switch over
switch plant
switch plate
switch plug
switch rail
switch sorrel
switch stand
switch tail
switch tender
switch tenter
switch tower
switch yard
switch-hit
switch-hitter
switch-hitting
switch-horn
switch-over
switchblade knife
switchboard operator
switching circuit
switching eye
swivel block
swivel bridge
swivel chain
swivel chair
swivel eyes
swivel fabric
swivel gun
swivel hook
swivel jaw
swivel musket
swivel pin
swivel pipe
swivel plow
swivel shuttle
swivel silk
swivel spindle
swivel table
swivel union
swivel vise
swivel weaving
swivel-eyed
swivel-hooked
swivel-lock
swizzle stick
swollen belly
swollen diction
swollen head
swollen phrase
swollen with pride
swollen-cheeked
swollen-eyed
swollen-faced
swollen-glowing
swollen-headed
swollen-jawed
swollen-tongued
swooning-ripe
swoop down
swoop down on
swoop down upon
sword arm
sword bayonet
sword bean
sword belt
sword blade
sword breaker
sword cane
sword cut
sword cutler
sword cutlery
sword dance
sword dancer
sword dollar
sword fern
sword flag
sword flax
sword grass
sword guard
sword hand
sword hanger
sword hilt
sword in hand
sword kin
sword knot
sword law
sword lily
sword maker
sword mat
sword of Damocles
sword sedge
sword service
sword side
sword swallower
sword swallowing
sword tash
sword thrust
sword tip
sword-armed
sword-bearer
sword-bearership
sword-billed
sword-girded
sword-girt
sword-grass
sword-leaved
sword-play
sword-shaped
sword-tailed
swordfish sucker
sworn and affirmed
sworn enemy
sworn evidence
sworn off
sworn statement
sworn testimony
sworn to
swot up
swung dash
sycamore anthracnose
sycamore fig
sycamore maple
sycee silver
syenite-porphyry
syenitic gneiss
syllabic accent
syllabic character
syllabic meter
syllabic nucleus
syllabic peak
syllabic symbol
syllable name
syllogistic reasoning
sylvan deity
sylvic acid
sym-
symbol-using animal
symbolic books
symbolic code
symbolic language
symbolic logic
symbolic meaning
symbolic system
symbolical books
symbolist movement
symbolist verse
symbols of
symmetric difference
symmetric function
symmetric group
symmetric matrix
symmetric polynomial
symmetry axis of rotation
symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic ma
sympathetic magic
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
sympathetic vibration
sympathize with
sympathy strike
symphonic conductor
symphonic form
symphonic music
symphonic ode
symphonic poem
symphonie concertante
symphony band
symphony concert
symphony orchestra
symphyo-
symphysio-
symptom complex
symptomatic anthrax
symptomatic treatment
syn-
synaposematic mimicry
sync-generator
synchro receiver
synchro transmitter
synchro unit
synchro-
synchro-cyclotron
synchronous linguistics
synchronized shifting
synchronizing generator
synchronizing pulse
synchronizing separator
synchronizing signal
synchronous converter
synchronous machine
synchronous motor
synchronous orbit
synchrotron radiation
syncopated music
syncro-mesh
syndesmo-
synectics group
synneusis texture
synodic month
synonym dictionary
syntactic analysis
syntactic construction
syntactic meaning
syntactic structure
syntax language
syntectic magma
synthesis gas
synthetic cloth
synthetic detergent
synthetic division
synthetic dye
synthetic fabric
synthetic geometry
synthetic lacquer
synthetic philosophy
synthetic plasma
synthetic resin
synthetic rubber
synthetic textile
syntonic personality
syphil-
syphilitic arthritis
syphilitic meningoencephalitis
syphilitic paresis
syphilo-
syringo-
syro-
syrphid fly
syrphus fly
syrup of ipecac
system component
system components
system engineer
system engineering
system function
system of belief
system of beliefs
system of government
system of ideas
system of knowledge
system of oral communication
system of theories
system of values
system of weight
system stabilization
systematic amnesia
systematic botany
systematic theology
systematically terrorize
systemic insecticide
systems analysis
systems analyst
systems design
systems engineering
systems planning
systole and diastole
systolic hypertension
t aint
t b
t distribution
t formation
t square
t will
t'ai chi chu'an
t'ao t'ieh
t-bar lift
t-bone
t-man
t-shirt
tRNA
ta ta
ta-ta
ta-zaung	tab key	tab of
taban pu teh	tabby cat	tabby moth	tabby weave	tabby-cat heart	tabby-cat striation	tabernacle mirror	tabernacle work	tabes dorsales	tabes dorsalis	table base	table board	table book	table chair	table clothing	table cover	table cut	table d'hote	table decoration	table decorator	table dhote	table diamond	table engine	table glass	table knife	table lamp	table licence	table line	table linen	table money	table mountain	table napkin	table of contents	table of organization	table of prothesis	table of the Lord	table oil	table radio	table rapping	table round	table ruby	table salt	table saw
table service
table setting
table settle
table spar
table stake
table stone
table talk
table talker
table tennis
table the motion
table tilting
table tipping
table tomb
table tripod
table turning
table wine
table work
table-board
table-book
table-cloth
table-cut
table-cutter
table-cutting
table-faced
table-formed
table-hop
table-hopped
table-hopper
table-hopping
table-land
table-mountain pine
table-rapping
table-shaped
table-spoon
table-stone
table-tail
table-talk
table-topped
table-turning
tableau curtain
tableau vivant
tableaux vivants
tabled joint	tablet chair	tablet letter	tablet tea	tablet triturate	tablets of the memory
taboo language
 taboo word
tabor pipe
tabs of
tabs on
tabucki grass
tabula rasa
tabular iceberg
tacca arrowroot
tacheo-
tachina fly
tacho-
tachy case
tachy-
tacit consent	
tack bend
tack board
tack bumpkin
tack comb
tack down wind
tack duty
tack hammer
tack line
tack on
tack pin
tack rivet
tack room
tack together
tack up
tack weld
tack welder
tack welding
tacketing gut	
tacking needle
tackle block
tackle board
tackle fall
tackle house
tackle post
tackles back formation
tacky party
tacnodeRare	
tactical air force	
tactical bombing
tactical evolutions
tactical maneuvers
tactical nuclear weapons
tactical plan
tactical police
tactical unit
tactical support bomber
tactile amnesia
tactile cell
tactile corpuscle
tactile hair
tactile organ
tactile process
tactile sense
tadpole fish
tadpole-shaped
tae-kwan-do
taedium vitae
taenii-
taenio-
taffeta weave
taffrail log
taffy pull
tag addresser
tag after
tag alder
tag along
tag and rag
tag boat
tag dance
tag day
tag end
tag line
tag on
tag up
tag, rag, and bobtail
tag-addressing
tag-affixing
tag-dating
tag-marking
tag-rag
tag-stringing	agged atom
tagged element
tagmemic analysis
tagrag and bobtail	ai-ping	ail barley	ail bay	ail beam	ail block	ail boom
tail coat
tail cone
tail covert
tail end
tail fan
tail fin
tail fly
tail force
tail gate
tail grab
tail grape
tail group
tail gunner
tail hook
tail house
tail in a gate
tail joist
tail lamp
tail lock
tail off
tail pipe
tail pit
tail plane
tail print
tail rhyme
tail rod
tail rope
tail rotor
tail set
tail shaft
tail skid
tail slide
tail spin
tail spindle
tail stinger
tail tackle
tail unit
tail water
tail wheel
tail wind
tail-board
tail-chasing
tail-cropped
tail-decorated
tail-docked
tail-end
tail-glide
tail-heavy
tail-high landing
tail-joined
tail-low landing
tail-piece
tail-pipe burner
tail-race
tail-rhymed
tail-rope
tail-switching
tail-tied
tail-wagging
tailed frog
tailed sonnet
tailed toad
tailings auger
taille-douce
tailless airplane
tailless jet
tailor warbler
tailor's chalk
tailor's-tack
tailor-bird
tailor-built
tailor-cut
tailor-legged
tailor-made
tailor-mades
tailor-make
tailor-making
tailor-suited
tailed suit	taint-free
taint-worm
taintor gate	tais toi
take French leave
take a Sunday drive
take a back seat
take a bow
take a break
take a call
take a careful look
take a chance
take a close look
take a course
take a crack at
take a crap
take a cursory view of
take a dare
take a decision
take a dim view of
take a dislike to
take a dive
take a drop
take a drop too much
take a fall
take a fancy to
take a favorable turn
take a flier
take a flight
take a fling at
take a flop
take a fresh lease on life
take a further look
take a gamble on
take a glance at
take a hand
take a hand in
take a header
take a heading
take a holiday
take a journey
take a joyride
take a leaf out of
take a leaf out of your book
take a leap in the dark
take a leave of absence
take a liberty
take a likeness
take a liking to
take a lively interest
take a long
take a look at
take a nap
take a new lease on life
take a part
take a peek
take a peep
take a percentage
take a photograph
take a picture
take a poke at
take a pop at
take a potshot
take a powder
take a pratfall
take a premium
take a prompt
take a random sample
take a rap
take a reading
take a recess
take a reef
take a resolution
take a rest
take a rubbing
take a runout powder
take a second look
take a set
take a shine to
take a shit
take a short cut
take a shot at
take a shy at
take a sight
take a spill
take a squint at
take a stand
take a straw vote
take a stretch
take a swing at
take a swipe at
take a trip
take a tumble
take a turn
take a turn for the better
take a voyage
take a walk
take a whack at
take a whiff of
take a wrong turn
take a wrong turning
take aback
take account of
take action
take advantage of
take advice
take after
take aim
take aim at
take alarm
take all of
take amiss
take an active part in
take an approach to
take an assumed name
take an attitude
take an aversion to
take an interest
take an interest in
take an overdose
take and do
take another look
take apart
take arms
take as a matter of course
take as a model
take as a precondition
take as a reason
take as an excuse
take as an occasion
take as demonstrated
take as gospel truth
take as proved
take aside
take at face value
take at your word
take away
take away from
take away your breath
take back
take bearings
take before the judge
take birth
take by assault
take by storm
take by surprise
take by the beard
take by the button
take by the hand
take by the lapel
take by the throat
take captive
take care
take care of
take care of number one
take center stage
take chances
take charge
take charge of
take charge of your destiny
take cognizance of
take cold
take comfort
take command
take counsel
take counsel of your pillow
take counsel with
take courage
take cover
take cover under
take credit
take dead aim at
take delight in
take doing
take down
take down a peg
take down a peg or two
take down in shorthand
take effect
take exception
take exception to
take fire
take five
take flight
take for
take for a ride
take for a sucker
take for better or for worse
take for gospel
take for granted
take for your own
take for yourself
take form
take forty winks
take fright
take from
take good care
take great satisfaction
take heart
take heart of grace
take heed
take heed at your peril
take heed of
take hold
take hold of
take hold of one
take hold of you
take holy orders
take horse
take ill
take in
take in a reef
take in bad part
take in exchange
take in good part
take in hand
take in sail
take in the sights
take in tow
take in vain
take in your stride
take into account
take into camp
take into consideration
take into custody
take into employment
take into your head
take into your service
take issue
take issue with
take it
take it all
take it as given
take it easy
take it in your stride
take it into your head
take it like a man
take it lying down
take it on the chin
take it on the lam
take it or leave it
take it out of
take it out of your hide
take it out of your skin
take it out on
take it that
take its place
take its rise
take its rise from
take kindly to
take leave
take leave of
take leave of your senses
take legal proceedings against
take lessons
take liberties
take liberties with
take life
take life easy
take line
take lying down
take measures
take medicine
take merit to yourself
take narrow views
take no account of
take no denial
take no interest in
take no note of
take no notice of
take no part in
take no stock in
take no thought of
take no thought of the morrow
take no thought of tomorrow
take note
take note of
take notice
take notice of
take nourishment
take oath
take off
take off a high
take off after
take off for
take off on
take off weight
take off your hands
take off your hat to
take off your shoes
take offense
take office
take on
take on credit
take on faith
take on over
take on trust
take on weight
take on yourself
take one over
take one step at a time
take one's breath away
take one's life
take order
take orders
take origin
take out
take out after
take out from under wraps
take out insurance
take out membership
take out of mothballs
take out on
take over
take over for
take pains
take part in
take part with
take pen in hand
take pity on
take pity upon
take place
take pleasure in
take position
take possession
take possession of
take potluck
take precautions
take precedence
take pride in
take prisoner
take rank
take refuge
take refuge in
take residence at
take rest
take revenge
take rise
take root
take shame
take shape
take shelter
take ship
take short
take sick
take sides
take sides with
take silk
take snuff
take some doing
take something in your stride
take soundings
take steps
take steps and measures
take stock
take stock in
take stock of
take ten
take the Lord's name in vain
take the air
take the air line
take the attitude
take the average
take the back track
take the bait
take the ball on the rebound
take the bit in
take the bit in the teeth
take the bit in your teeth
take the bite out
take the blame
take the breath away
take the bull by the horns
take the cake
take the chair
take the chance
take the chances of
take the chill off
take the consequences
take the count
take the cross
take the cure
take the dimensions of
take the edge off
take the edge off of
take the fancy of
take the field
take the first step
take the floor
take the good the gods provide
take the ground
take the ground from under
take the heart out of
take the helm
take the initiative
take the last count
take the law in your own hands
take the law into your own hands
take the law of
take the law on
take the lead
take the liberty
take the lid off
take the life of
take the load off your mind
take the mantle of
take the marriage vows
take the mean
take the measure
take the measure of
take the mind off of
take the offensive
take the opportunity
take the part of
take the place of
take the pledge
take the plunge
take the rap
take the rap for
take the reciprocal course
take the reins into your hand
take the reins of government
take the responsibility
take the risk
take the road
take the shape of
take the shine out of
take the starch out of
take the sting out
take the sting out of
take the stump
take the the bull by the horns
take the throne
take the tuck out of
take the veil
take the vows
take the wind out of
take the wind out of your sails
take the words out of your mouth
take the wraps off
take things as they come
take thought of
take time
take time by the forelock
take time out
take to
take to account
take to arms
take to be
take to court
take to drink
take to drinking
take to flight
take to heart
take to mean
take to one's heels
take to pieces
take to task
take to the air
take to the airways
take to the bosom
take to the cleaners
take to the hustings
take to the road
take to the stump
take to wife
take to your arms
take to your heels
take to yourself a wife
take trouble
take turns
take umbrage
take unawares
take under active consideration
take under advisement
take under consideration
take under your wing
take up
take up a side
take up again
take up an inquiry
take up and pay off
take up arms
take up membership
take up residence
take up the cause of
take up the cudgels
take up the cudgels against
take up the cudgels for
take up the gauntlet
take up the hatchet
take up the sword
take up time
take up with
take up your abode
take up your option
take up your quarters
take up your thoughts
take up your time
take upon your shoulders
take upon yourself
take vows
take what comes
take wing
take with a grain of salt
take wrong
take you at your word
take you back
take you up on
take your bearings
take your breath away
take your business to
take your case to the public
take your chance
take your choice
take your constitutional
take your cue from
take your death
take your departure
take your dust
take your ease
take your fancy
take your foot off the gas
take your hat off to
take your head off
take your last breath
take your last sleep
take your leave
take your leisure
take your life away
take your life in your hand
take your life in your hands
take your lumps
take your measure
take your medicine
take your oath
take your oath upon
take your opinions ready-made
take your own course
take your own life
take your own sweet time
take your picture
take your place
take your pleasure
take your position
take your punishment
take your sabbatical
take your stand
take your stand against
take your stand upon
take your time
take your trade to
take your turn
take your way
take your word
take your word for
take yourself away
take yourself off
take-
take-all
take-charge
take-charge guy
take-down
take-home
take-home examination
take-home pay
take-in
take-off
take-off booster
take-off rocket
take-off speed
take-off strip
take-out
take-over
take-up
take-up box
taken aback
taken as granted
taken away
taken by surprise
taken for granted
taken ill
taken off
taken on
taken unawares
taken up
taken up with
taken with
takeoff power
takeoff ramp
takeoff rocket
takeoff run
takeout double
taker-down
taker-in
taker-off
taking a part
taking a role
taking all in all
taking all things together
taking apart
taking away
taking by storm
taking down
taking everything into account
taking exception
taking from under wraps
taking in
taking into account
taking into account that
taking into custody
taking it for all in all
taking leave
taking of life
taking off
taking office
taking on
taking one thing with another
taking or drawing out
taking over
taking place
taking possession
taking the wraps off
taking ways
taking-in
tal-laisim
talba gum	
talc bag
talc blank
talc brick
talc crayon
talc cube
talc facing
talc pencil
talc pulverizer	
talc schist	
talc-grinding
talca gum	
talco gum	
talcum powder	
tale-teller
tale-telling
taleh gum
talent money
talent scout
talent show
talented person
talha gum
talk about
talk against time
talk at
talk away
talk back
talk beans
talk between ships
talk big
talk dirty
talk double Dutch
talk down
talk down to
talk film
talk highfalutin
talk idly
talk in
talk in superlatives
talk incoherently
talk into
talk nineteen to the dozen
talk nonsense
talk of
talk of the town
talk off the top of your head
talk on
talk out
talk out of
talk out of turn
talk over
talk over the back fence
talk round
talk show
talk the hind leg off a mule
talk through your hat
talk to
talk to death
talk to hear your head rattle
talk to in private
talk to yourself
talk together
talk too much
talk turkey
talk up
talk with
talk with one
talk with you in private
talk you around
talk you deaf and dumb
talk you into a fever
talk you to death
talk your ear off
talk your head
talk your head off
talk yourself hoarse
talk yourself out of breath
talk-back
talkative person
talked about
talked-about
talked-of	alkeet-alkeet
talking book
talking chief
talking down
talking machine
talking out of
talking picture
talking point
talking through your nose
talking to hear yourself talk
talking-down system
talking-to
talking-tos
talky-talk
talky-talky	all as a maypole
tall coreopsis
tall drink
tall fescue
tall meadow oat
tall meadow rue
tall oat grass
tall oil
tall order
tall person
tall poppy
tall ship
tall story
tall sunflower
tall tale
tall talk
tall-bodied
tall-built
tall-case clock
tall-chimneyed
tall-columned
tall-corn
tall-elled
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pillared
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan
tallow bayberry
tallow candle
tallow catch
tallow chandler
tallow chandlery
tallow chandling
tallow cooler
tallow crackling
tallow cup
tallow cutter
tallow dip
tallow drop
tallow gourd
tallow loaf
tallow mange
tallow melter
tallow nut
tallow oil
tallow pot
tallow press
tallow refiner
tallow renderer
tallow sampler
tallow shrub
tallow tree
tallow wood
tallow-chandlering
tallow-colored
tallow-cut
tallow-face
tallow-faced
tallow-hued
tallow-lighted
tallow-pale
tallow-top
tallow-topped
tallow-white
tally board
tally card
tally clerk
tally iron
tally of
tally plan
tally room
tally sheet
tally shop
tally stick
tally trade
tally up
tally walk
tally with
tally-ho
tallyho back
tallyho coach
tallyho over	almai gold
talon-tipped	tam o' shanter	tam o'shanter	tam-o'-shanter	tam-o'-shanter	tam-o'-shantered	tam-tam	tamale pie	tamarack pine	tamarind fish	tamarind plum	tamarisk family	tamarisk salt	tamarisk salt tree	tamarix family	tambookie grass
tambour clock
tambour lace
tambour stitch
tambour stitcher
tambour work
tame-grief
tame-grown
tame-lived
tame-looking
tame-minded
tame-natured
tame-spirited
tame-witted	
tammie norie
tammy cloth
tamp in
tamper with
tampered with
tamping bar
tamping iron
tamping pick
tamping stick
tan bay
tan oak
tan your hide
tan-burning
tan-colored
tan-faced
tan-mouthed
tan-sailed
tan-skinned
tan-strewn
tan-tan
tan-tinted
tan-trodden	
tanbark beetle
tanbark oak
tanbark tree	
tandem bicycle
tandem cart
tandem plane
tandem rotors
tandem seat
tandem-compound
tandem-punch	
tandem-rotor helicopter	
tang chisel	
tang end
tangent distance
tangent galvanometer
tangent plane
tangent-cut
tangent-saw
tangent-sawed
tangent-sawing
tangent-sawn
tangential motion
tangerine-colored
tangible assets
tangle picker
tangle up with
tangle with
tangle-haired
tangle-headed
tangle-legs
tangle-tail
tangle-tailed
tangled in
tangled skein
tank car
tank circuit
tank corps
tank corpsman
tank crewman
tank destroyer
tank dome
tank drama
tank driver
tank engine
tank farm
tank farming
tank fighter
tank furnace
tank iron
tank liquor
tank locomotive
tank meter
tank nipple
tank rivet
tank runner
tank ship
tank station
tank suit
tank table
tank top
tank town
tank trailer
tank truck
tank up
tank wagon
tank waste
tank-town
tankard bearer
tankard-bearing
tanker ship
tannery fungus	
tannic acid
tannin color
tanning extract
tanno-
tannyl acetate
tansy mustard
tansy oil
tansy ragwort
tant mieux
tant pis
tant soit peu
tantalic acid
tantalam lamp
tao-tieh
tap bell
tap bolt
tap bond
tap borer
tap chuck
tap cinder
tap cutter
tap dance
tap dancer
tap dancing
tap dressing
tap drill
tap extractor
tap funnel
tap gauge
tap grinder
tap holder
tap hose
tap line
tap out the rhythm
tap rate
tap reamer
tap rivet
tap screw
tap shoe
tap tool
tap water
tap wrench
tap-dance
tap-danced
tap-dancer
tap-dancing
tap-hole
tap-house
tap-lash
tap-off
tap-pickle
tap-room
tap-root
tap-tap
tap-tap-tap
tapa cloth
tape cartridge
tape cassette
tape deck
tape fern
tape grass
tape machine
tape measure
tape memory
tape needle
tape player
tape price
tape reader
tape reading
tape recorder
tape recording
tape sizer
tape sizing
tape thermometer
tape-bound
tape-grass family
tape-printing
tape-record
tape-slashing
tape-tied
tape-tying	aped program	aped show	aper drill	aper file	aper gauge
tar-brush
tar-burning
tar-clotted
tar-coal
tar-dipped
tar-heating
tar-laid
tar-paint
tar-paved
tar-removing
tar-roofed
tar-scented
tar-sealed
tar-soaked
tar-spray
tar-water	
tara fern
tarage table
tarantula hawk
tardive dyskinesia
tardy epilepsy
tardy-gaited
tardy-moving
tardy-rising	
tare an ages
tare anouns
tare anounty	
tare grass
tare room	
tare vetch
target arrow
target bass
target boat
target date	
target day
target frame
target image
target lamp
target language
target man
target meeting
target missile
target planet
target practice
target range
target rifle
target rod
target shaft
target spot
target values
target-shy
target-tower
target-tug
tariff duty
tariff law
tariff maker
tariff making
tariff reform
tariff reformer
tariff treaty
tariff wall
tariff-born
tariff-bound
tariff-fed
tariff-protected
tariff-raised
tariff-raising
tariff-reform
tariff-regulating
tariff-ridden
tariff-tinkering
tariff-wise	
tarn-brown	
tarpaulin muster
tarpaulin-covered
tarpaulin-lined	
tarragon oil
tarragon vinegar	
tarred with the same brush	
tarry for
tarry-breeks
tarry-fingered
tarry-jacket
tarrying irons	
tarso-
tarso-metatarsal
tarso-metatarsus	
tarso-orbital	
tart up	
tartan velvet
tartan-purry	
tartar emetic	
tartar sauce	
tartar steak	
tartar yeast	
tartare sauce
tartare steak
tartaric acid
tartro-
task force
task group
task the mind with
task time
task wage
task with
task-work
tasmanian devil
tasmanian wolf	
tassel bush
tassel flower
tassel grass
tassel hand
tassel hyacinth
tassel mold
tassel plant
tassel pondweed
tassel stitch
tassel tree
tassel weaver
tassel-hung
taste beaker
taste blood
taste bud
taste bulb
taste cell
taste cup
taste goblet
taste good
taste hair
taste in the mouth
taste like
taste like ashes in the mouth
taste of
taste paper
taste-maker	
tat tvam asi	
tat-tat	
tat-tat-tat	
tatou peba	
tattie bogle		
tattie lifting		
tattle on		
tattleteale gray		
tattoo mark
tatty-peelin
tau cross
tau staff
tau-meson
tau-saghyz
tau-topped
taunt ship
taunt with
taunt-masted
taunt-rigged
taupe brown
taupe-rose
tauro-
taurocholic acid
taut as a bowstring
taut-
tauto-
tavern car
tavern table
tavern token
tavern-gotten
tavern-hunting
tavern-tainted
taw line	
tawdry lace
tawed leather		tawny owl
tawny port
tawny-brown	
tawny-coated	
tawny-colored	
tawny-faced	
tawny-gold	
tawny-gray	
tawny-green	
tawny-haired	
tawny-moor		
tawny-olive	
tawny-skinned	
tawny-tanned	
tawny-visaged	
tawny-whiskered	
tawny-yellow		
tax anticipation note	
tax assessor	
tax avoidance	
tax base	
tax benefit
tax bond
tax book
tax cart
tax certificate
tax collecting
tax collector
tax collectors
tax credit
tax deduction
tax deed
tax dodger
tax dodging
tax evader
tax evasion
tax exemption
tax farmer
tax haven
tax layer
tax levy
tax lien
tax list
tax money
tax rate
tax receiver
tax return
tax roll
tax sale
tax shelter
tax stamp
tax stamp n
tax structure
tax taker
tax the memory
tax title
tax with
tax withholding
tax write-off
tax your energies
tax yourself
tax-
tax-born
tax-bought
tax-burdened
tax-cart
tax-deductible
tax-dodging
tax-exempt
tax-exempt bond
tax-exempt status
tax-free
tax-free bond
tax-gatherer
tax-laden
tax-levying
tax-ridden
tax-supported
taxable goods
taxable income
taxable land
taxable property
taxi dancer
taxi driver
taxi horn
taxi radar
taxi strip
taxi truck
taxi-bordered
taxi-cab
taximeter cab
tch tch
tcheck out
te deum
te igitur
te-hee
te-heed
te-heing
tea bag
tea ball
tea bell
tea biscuit
tea blender
tea blight
tea borer
tea bread
tea break
tea broom
tea caddy
tea cake
tea can
tea canister
tea cart
tea ceremony
tea checker
tea chest
tea clipper
tea cloth
tea cooper
tea cosy
tea cozy
tea dance
tea drinker
tea drunkard
tea egg
tea family
tea fight
tea fighting
tea garden
tea gardener
tea girl
tea gown
tea green
tea hound
tea hour
tea house
tea infuser
tea kettle broth
tea kitchen
tea lead
tea leaf
tea maid
tea maker
tea meeting
tea mite
tea mixer
tea mosquito
tea oil
tea oil tree
tea olive
tea packer
tea party
tea percolator
tea plant
tea planter
tea planting
tea plate
tea rose
tea sampler
tea scrub
tea service
tea set
tea shop
tea sifter
tea strainer
tea table
tea tasting
tea towel
tea tray
tea tree
tealrolley
tea urn
tea wagon
tea weigher
tea-blending
tea-chest
tea-clipper
tea-colored
tea-covered
teacup
tegarden
teargarded
tea-growing
tea-inspired
tealeaf
tealeaved
tealeaves
tea-loving
teamaker
tea-mixing
tea-of-heaven
tea-packaging
teaparty
tenplant
tenplanter
tea-pot
tea-producing
tearose
tearose pink
tea-scented
tea-seed oil
tea-sodden
tea-spoon
tea-swilling
tea-table
tea-table talk
tea-tabular
tea-taster
tea-things
tea-tray
tea-tree
teach a lesson
teach an old dog new tricks
teach fishes to swim
teach in
teach the elements
teach the rudiments
teach-in
teach-ins
teacher bird
teacher clerk
teacher edition
teacher of rhetoric
teacher training
teacher's aide
teacher's pet
teachers college
teachers' college
teaching aid
teaching assistant
teaching elder
teaching fellow
teaching fellowship
teaching hospital
teaching institution
teaching intern
teaching machine
teaching staff
teagle post
teak-brown
teak-built
teak-complexioned
teak-lined
teak-producing
teal blue
teal duck
teal flock
team boat
team play
team spirit
team teaching
team up
team up with
team with
team-mate
tear along
tear apart
tear around
tear ass
tear away
tear bag
tear bomb
tear bottle
tear down
tear duct
tear from
tear gas
tear gland
tear grass
tear grenade
tear into
tear limb from limb
tear loose
tear off
tear off the mask
tear open
tear out
tear sheet
tear shell
tear streak
tear strip
tear tape
tear to pieces
tear to rags
tear to shreds
tear to tatters
tear up
tear up the earth
tear up the road
tear up the track
tear up your mortgage
tear your hair
tear your hair out
tear yourself away
tear-
tear-acknowledged
tear-affected
tear-angry
tear-arresting
tear-attested
tear-baptized
tear-bedabbled
tear-bedewed
tear-besprinkled
tear-blinded
tear-bottle
tear-bright
tear-commixed
tear-compelling
tear-composed
tear-creating
tear-damped
tear-derived
tear-dewed
tear-dimmed
tear-distained
tear-distilling
tear-dropped
tear-drowned
tear-eased
tear-embarrassed
tear-expressed
tear-falling
tear-filled
tear-forced
tear-fraught
tear-freshened
tear-gas
tear-gas bomb
tear-gas grenade
tear-gas gun
tear-gassed
tear-gassing
tear-glistening
tear-imaged
tear-jerker
tear-jerking
tear-kissed
tear-lamenting
tear-lined
tear-marked
tear-melted
tear-mirrored
tear-misty
tear-mocking
tear-moist
tear-mourned
tear-off
tear-out
tear-owned
tear-pale
tear-pardoning
tear-paying
tear-persuaded
tear-phrased
tear-pictured
tear-pitying
tear-plagued
tear-pouring
tear-practiced
tear-procured
tear-protested
tear-provoking
tear-purchased
tear-quick
tear-raining
tear-reconciled
tear-regretted
tear-resented
tear-revealed
tear-reviving
tear-salt
tear-scoring
tear-sealed
tear-shaped
tear-shedding
tear-shot
tear-stained
tear-stubbed
tear-swollen
tear-thirsty
tear-washed
tear-wet
tear-wiping
tear-worn
tear-wrung
tearful eyes
tearing down
tearing out
tearing passion
tearing up root and branch

tease out

tease tenon

tease up

teasel clipper

teasel cutter

teasel family

teasel frame

teasel gourd

teasel grower

teasel merchant

teasel packer

teasel sorter

teaser artist

teaser curtain

teat cup
teaze tenon
technical adviser
technical brilliance
technical college
technical education
technical expert
technical flaw
technical jargon
technical knockout
technical know-how
technical knowledge
technical mastery
technical oil
technical school
technical sergeant
technical skill
technical term
technical training institute
technical writer
technical writing
technically superb

- technico-
- techno-
- technological institute
- technological revolution
- technological school
- technological unemployment
- technological warfare
- tecto-
- tectorial membrane
teddy bear
teddy boy
teddy girl
teddy-bear

tedious work
tedium-proof

- tee bar
- tee beam
- tee burial
- tee iron
- tee joint
- tee off
- tee plate
- tee rail
- tee shirt
- tee slot
- tee square
- tee-bulb
tee-hee
tee-hole
tee-name
tee-shirt
peed off
teeing ground
teel oil
tee over
tee with
teeing imagination
teeing loins
teeing rain
teeing womb
teen age
teen-age
teen-aged
teen-ager
teenie-weenie
teenie-weenies
teeny-weeny
tee-totter
pee-tottering
tetering-board
teeery-bender
teeth ridge
teeth-chattering
teeth-edging
teeth-gnashing
teeth-grinding
peething ring
peething troubles
pee tree
pee boll
pee-
tele-
tele-action
tele-iconograph
telechron clock
telegraph agency
telegraph bar
peegraph block
telegraph blue
telegraph board
telegraph box
telegraph bracket
telegraph bug
telegraph buoy
telegraph cable
telegraph clerk
telegraph clock
telegraph coil
telegraph connector
telegraph editor
telegraph form
telegraph hook
telegraph inspector
telegraph instrument
telegraph insulator
telegraph jack
telegraph key
telegraph laborer
telegraph line
telegraph lineman
telegraph mechanic
telegraph messenger
telegraph operator
telegraph plant
telegraph pole
telegraph protector
telegraph recorder
telegraph recorders
telegraph relay
telegraph repeater
telegraph rope
telegraph sounder
telegraph superintendent
telegraph switchboard
telegraph tape
telegraph transmitter
telegraph tubing
telegraph wire
telegraph wireman
teleo-
teleological argument
teleological proof
telepathic dream
telepathic hallucination
telepathic transmission
telephone amplifier
telephone area
telephone arm
telephone attendant
telephone bell
telephone book
telephone booth
telephone box
telephone cabinet
telephone cable
telephone call
telephone case
telephone cell
telephone closet
telephone coil
telephone condenser
telephone connector
telephone cord
telephone counter
telephone desk
telephone directory
telephone engineer
telephone engineering
telephone exchange
telephone extension
telephone faultsman
telephone fitter
telephone fuse
telephone generator
telephone holder
telephone instrument
telephone insulation
telephone insulator
telephone jack
telephone kiosk
telephone knob
telephone laborer
telephone line
telephone lineman
telephone magneto
telephone man
telephone market
telephone mechanic
telephone mechanics
telephone mouthpiece
telephone number
telephone office
telephone operator
telephone pad
telephone plug
telephone pole
telephone protector
telephone receiver
telephone relay
television receiver
television receiver parts
television reception
television relay
television set
television show
television station
television studio
television technician
television transmission
television transmitter
television transmitter parts
television tube
television-viewer
tell a good story
tell a lie
tell a story
tell a thing or two
tell all
tell apart
tell confidentially
tell for your ears only
tell fortunes
tell how
tell idle tales
tell in advance
tell in glowing terms
tell it like it is
tell it not in Gath
tell it to the judge
tell its own story
tell its own tale
tell more than you want to know
tell off
tell on
tell once and for all
tell one thing from another
tell secrets
tell tales
tell tales out of school
tell the future
tell the meaning of
tell the news
tell the truth
tell true
tell where to get off
tell you a secret
tell you to your face
tell your beads
tell your fortune
tell yourself
tell-tale
tell-truth
teller of tales
teller's check
teller-out	
telling of beads
telltale compass
telltale sign
tellur-
telluric acid
tellurium glance
telo-
telome theory
telpher carrier
telpher line
telpher railway
telpher ropeway	
temper color
temper pin
temper screw
temper tantrum
temper-spoiling
temper-trying
temper-wearing
tempera painting
temperance drink
temperance hotel
temperance movement
temperantia salver
temperantia tray	
temperate zone
temperature coefficient
temperature control
temperature curve
temperature gradient
temperature relay
temperature sensation
temperature sense
temperature sensor
temperature signal
temperature spot
temperature wind rose
temperature-humidity index	
tempered glass
tempered safety glass
tempered semitone
tempest in a teacup
tempest in a teapot
tempest-bearing
tempest-beaten
tempest-blown
tempest-born
tempest-clear
tempest-driven
tempest-flung
tempest-gripped
tempest-harrowed
tempest-loving
tempest-proof
tempest-rent
tempest-rocked
tempest-scattered
tempest-scoffing
tempest-shattered
tempest-sundered
tempest-swept
tempest-threatened
tempest-torn
tempest-tossed
tempest-tost
tempest-troubled
tempest-walking
tempest-winged
tempest-worn
tempestuous rage
tempestuous wind
template excavator
template jig
temple axis
temple flower
temple mound
temple name
temple of the Holy Ghost
temple prostitute
temple title
temple tree
temple-bar
temple-crowned
temple-guarded
temple-haunting
temple-robbing
temple-sacred
temple-treated
ten-dollar gold piece
ten-eighty
ten-fingered
ten-footed
ten-forties
ten-gallon hat
ten-gauge
ten-grain
ten-guinea
ten-headed
ten-horned
ten-horsepower
ten-hour
ten-inch
ten-jointed
ten-keyed
ten-knotter
ten-league
ten-mile
ten-minute
ten-month
ten-oared
ten-parted
ten-peaked
ten-percenter
ten-pins
ten-ply
ten-point
ten-pound
ten-pounder
ten-rayed
ten-ribbed
ten-roomed
ten-second
ten-share unit stock
ten-shilling
ten-spined
ten-spot
ten-strike
ten-striker
ten-stringed
ten-syllable
ten-syllabled
ten-talented
ten-thousandaire
ten-to-one shot
ten-ton
ten-tongued
ten-toothed
ten-twenty-thirty
ten-weeks stock
ten-wheeled
ten-wheeled locomotive
ten-year
tenacious of life
tenaille line
tenant at sufferance
tenant at will
tenant farmer
tenant for life
tenant for years
tenant from year to year
tenant in capite
tenant in chief
tenant right
tenant righter
tenant-in-chief
tenant-right
tend animals	
tend on
tend to
tend to a point	
tend to go
tend to show
tend toward	
tend towards
tendency chord
tendency play
tendency theory
tendency tone
tendency writing
tender age	
tender annual
tender conscience
tender feeling	
tender heart
tender loving care
tender mercies
tender passion
tender perennial	
tender rocket
tender spot	
tender susceptibilities	
tender thanks	
tender your compliments	
tender your congratulations
tender your felicitations
tender your resignation
tender-bearded
tender-bladed
tender-bodied
tender-boweled
tender-colored
tender-conscienced
tender-dying
tender-eared
tender-eyed
tender-faced
tender-footed
tender-footedness
tender-foreheaded
tender-handed
tender-hearted
tender-heartedly
tender-hefted
tender-hoofed
tender-hued
tender-looking
tender-minded
tender-mouthed
tender-natured
tender-nosed
tender-personed
tender-rooted
tender-shelled
tender-sided
tender-skinned
tender-souled
tender-taken
tender-tempered
tender-witted
tenderloin steak
tending to
tendinous arch
tendon reflex
tendon sense
tendril climber
tendril-climbing
ten-bricose
tenement building
tenement district
tenement house
tenement of clay
tennesse walking horse
tent dress
tent fly
tent meeting
tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
tent tree
tent worm
tent-clad
tent-dotted
tent-dwelling
tent-fashion
tent-fly
tent-peg
tent-shaped
tent-sheltered
tent-stitch
tentaculi-
tentative approach
tentative contact
tentative examination
tentative explanation
tentative method
tentative poke
tentatively suggest
tented field
tenter-hook
tenterhook willey	
tenth muse
tenth's place
tenth-rate
tenui-
tenure by free alms
tenure in chivalry
tenure in free alms
tenure in office
tenure of office
teo-nong
tepary bean
ter-
ter-equivalent
ter-sacred
ter-sanctus
terai hat
terat-
terbium metal
terbium oxide
tercel gentle
tercel-gentle
terebic acid
terebinic acid
terebinth tree
terephthalic acid
tereti-
tergo-
term attendant
term day
term fee
term hour
term insurance
term loan
term of imprisonment
term paper
term policy
term rate
term settlement
term-time
terminable annuity
terminal case
terminal date
terminal figure
terminal leave
terminal market
terminal moraine
terminal point
terminal speed
terminal velocity
terminate the account
terminating decimal
terminating plan
terminus a quo
terminus ad quem
termite-proof
terms of trade
tern schooner
tern-plate
ternary form
ternate-pinnate
terne metal
terne plate
terpane group
terpene alcohol
terpene hydrate
terpin hydrate
terra a terra
terra alba
terra cariosa
terra catechu
terra cotta
terra damnata
terra firma
terra foliata
terra incognita
terra japonica
terra miraculosa
terra muriatica
terra orellana
terra pinguis
terra ponderosa
terra porcellanea
terra pozzuoli
terra putura
terra rosa
terra rossa
terra salitrosa
terra sienna
terra sigillata
terra umbra
terra verde
terra-cotta
terra-cotta lumber
terrace maker
terrace-banked
terrace-fashion
terrace-mantling
terrace-steepled
terraced house
terae filii
terae filius
terrain clearance indicator
terrain cure
terrain map
terramara culture
terrapin paws
terrapin scale
terrasse green
terre verte
terre-a-terreishly
terre-tenant
terre-verte
terrestrial globe
terrestrial guidance
terrestrial kingdom
terrestrial planet
terrestrial telescope
terrible thing
territorial court
territorial defense army
territorial division
territorial militia
territorial reserves
territorial system
territorial waters
territory wool
terror tactics
terror-bearing
terror-breathing
terror-breeding
terror-bringing
terror-crazed
terror-driven
terror-fleet
terror-fraught
terror-giving
terror-haunted
terror-inspiring
terror-lessening
terror-mingled
terror-preaching
terror-ridden
terror-riven
terror-shaken
terror-smitten
terror-stirring
terror-stricken
terror-striking
terror-struck
terror-threatened
terror-troubled
terror-wakened
terror.warned
terror-weakened
terroristic tactics
terry cloth
tersy-versy
tertia tone
tertiary college
tertiary color
tertiary stress
tertiary syphilis
tertium quid
teru-tero
terza rima
tesla coil
tessara-
test act
test animal
test ban
test bar
test blank
test bow
test boy
test case
test clerk
test cutter
test driver
test flight
test frame
test furnace
test game
test glass
test height
test hop
test house
test indicator
test instrument vehicle
test kitchen
test lead
test man
test marker
test match
test meal
test nail
test oath
test object
test one another
test out
test paper
test pattern
test pilot
test pit
test rocket
test room
test run
test solution
test tube
test tubing
test type
test-ban
test-bed
test-tube
test-tube baby
test-tubeful
testaceo-
testament dative
tester bed
testify against
testimonial banquet
testimonial dinner
testimony meeting
testing area
testing device
testing engineer
testing engineering
testing equipment
testing ground
testing sample
testing terminal
tetano-
tetanus bacillus
tetanus toxin
tetanus toxoid
tetarto-
tetbrothalein sodium
tete a tete
tete de veau
tete-a-tete
tete-beche	ether-devil
tetiothalein sodium
tetra-
tetra-icosane	etrad difference
tetradecyl alcohol
tetraethyl lead
tetraethyl pyrophosphate
tetraethylthiuram disulfide
tetragonal system
tetragonal trisoctahedron	tetrahedral kite
tetrahedrite type
tetrahydrol cannabinol
tetrahydroxyadipic acid
tetrakis-hexahedron
tetralogy of Fallot
tetramethyl base
tetrode transistor
tetter berry
tetter-berry
teuto-
tew iron
texas deck
texas fever
texas independence day
texas leaguer
texas ranger
texas tower
text blindness
text edition
text hand
text letter
text pen
text title
text writer
text-book
text-hand
text-letter
text-writer
textbook editor
textile designer
textile engineer
textile engineering
textile fabric
textile soap
textual critic
textual criticism
textus receptus
th-
thalamo-
thalamo-olivary
thalass-
thale-cress
thall-
thallium oxysulfide
thallium sulfate
thalloid shoot
thallous sulfate
thalofide cell
thanato-
thank God
that's the end of the matter
that's the idea
that's the thing
that's the ticket
that's the very thing
that's the way the ball bounces
that's your lookout
that's your pigeon
that's your tough luck
that-a-way
that-away
thatch cloak
thatch grass
thatch palm
thatch peg
thatch pin
thatch rake
thatch rod
thatch tree
thatch-browed
thatch-headed
thatch-roofed
thatched roof
thaumato-
thaw out
thaw-drop
the Abbey
the Absolute
the Absolute Being
the Absolute Idea
the Academy
the Acropolis
the Adjutant General
the Admiralty
the Adversary
the Advocate
the Air Pump
the All-father
the All-holy
the All-knowing
the All-merciful
the All-powerful
the All-wise
the Almighty
the Altar
the Americas
the Anointed
the Antarctic
the Apocalypse
the Arch-fiend
the Archer
the Archipelago
the Arctic
the Argentine
the Arrow
the Ascension
the Assumption
the Author of Evil
the Axis
the Bab
the Balance
the Balkans
the Baptist
the Big Board
the Bird of Paradise
the Blessed One
the Blessed Virgin
the Bluegrass
the Book
the Book of Books
the Bowery
the Bread of Life
the Bride of the Lamb
the Bull
the Canaanite
the Cape
the Carolinas
the Cascades
the Catacombs
the Caucasus
the Centaur
the Chained Lady
the Chameleon
the Charioteer
the Christ
the Christ Child
the Church
the City
the Clock
the Coalsack
the Coast
the Colonies
the Colophonian
the Comforter
the Common Enemy
the Commonwealth
the Commonwealth of Nations
the Commune
the Compasses
the Confederacy
the Confederation
the Conessor
the Conquest
the Consoler
the Continent
the Crab
the Crane
the Creation
the Creator
the Cross
the Crow
the Crown
the Cup
the Cyprian
the DT's
the Dakotas
the Dales
the Decalogue
the Deity
the Deluge
the Demon
the Demon Rum
the Depression
the Destinies
the Destroyer
the Deuce
the Devil
the Devil Incarnate
the Devil's pitchfork
the Dickens
the Digest
the Dirae
the Directory
the Divine
the Divine Liturgy
the Divinity
the Dog Star
the Dolphin
the Dominion
the Door
the Dorado Fish
the Dove
the Doxology
the Dragon
the Eagle
the East
the Eddas
the Eight
the Elevation
the Enemy
the Enlightenment
the Erinyes
the Essence of the Universe
the Establishment
the Eternal
the Eternal Being
the Eucharist
the Eumenides
the Everlasting
the Everlasting Father
the Evil One
the Evil Spirit
the Exchange
the Exile
the Exodus
the Fall
the Father
the Father of Evil
the Father of Lies
the Fathers
the Fens
the Fiend
the First Cause
the Fishes
the Fleet
the Flood
the Fly
the Flying Fish
the Foal
the Forerunner
the Forum
the Foul Fiend
the Four Freedoms
the Four Hundred
the Fund
the Furies
the Furnace
the Galilean
the Garter
the Giant Hunter
the Giraffe
the Gironde
the Goat
the Good Book
the Good Shepherd
the Gospel
the Gracchi
the Graces
the Grange
the Great Bear
the Great Depression
the Great Divide
the Great Dog
the Great Spirit
the Guardian of Mankind
the Hare
the Hebrides
the Herdsman
the Hill
the Holocaust
the Holy Father
the Holy Ghost
the Holy Sacrament
the Holy See
the Holy Spirit
the Honorable
the Horn
the Horned Goat
the Hours
the Hub
the Hunting Dogs
the Hypostatic Union
the I
the Incarnation
the Indian
the Indies
the Infant Jesus
the Infinite
the Infinite Being
the Infinite Spirit
the Inquisition
the Intercessor
the Jewish Law
the Judge
the Judgment
the Keel
the King of Light
the King's English
the King's evil
the Kirk
the Kremlin
the Lady in the Chair
the Lady of the Lake
the Lamb
the Larger Dog
the Last Day
the Law
the Left
the Legion
the Lesser Bear
the Lesser Dog
the Lesser Lion
the Life
the Light of the World
the Lion
the Litany
the Little Dog
the Little Fox
the Liturgy
the Lizard
the Loop
the Lord Buddha
the Lord of Wisdom
the Lord's Prayer
the Lowlands
the Lynx
the Lyre
the Mafia
the Maker
the Man
the Man of Sorrows
the Mast
the Master
the McCoy
the Mediator
the Method
the Microscope
the Monarch
the Mosaic Law
the Most Excellent
the Most Honorable
the Most Noble
the Most Reverend
the Most Worshipful
the Most Worthy
the Mountain
the Muses
the Nativity
the Nazarene
the Net
the Nine
the Noble
the North Star
the Northern Crown
the Northwest
the Now Generation
the Octant
the Old Adam
the Old Enemy
the Old Gentleman
the Old Man
the Old Serpent
the Olympics
the Omnipotent
the Omniscient
the Only-Begotten
the Orient
the Painter
the Pale Horse
the Paphian
the Peacock
the Peninsula
the Pentagon
the Phoenix
the Plain
the Pole Star
the Porch
the Potteries
the Preparation
the Preserver
the Prince of Darkness
the Prince of the Devils
the Prince of this world
the Promised Land
the Prophet
the Prophets
the Psalmist
the Psalms
the Psalter
the Psaltery
the Queen's English
the Ram
the Rand
the Reaper
the Red Planet
the Reef
the Regenerator
the Reproaches
the Restoration
the Rev Dr Dryasdust
the Reverend
the Right Honorable
the Right Reverend
the Risen
the River Po
the Roman Emperor
the Rule
the Rump
the Sacrament
the Sails
the Salon
the Scales
the Scandinavian Peninsula
the Scorpion
the Scriptures
the Sculptor
the Sculptor's Tool
the Sea Serpent
the Self-determined
the Serpent
the Serpent Bearer
the Seventy
the Sextant
the Shepherd
the Shield
the Ship Argo
the Shires
the Slump
the Snowies
the Snowy
the Son
the Sorrowful Mother
the South Seas
the Southern Crown
the Southern Fish
the Southern Triangle
the Spirit
the Spirit of God
the Spirit of Truth
the Stagirite
the Star-Spangled Banner
the States
the Stern
the Street
the Sudeten
the Sun of Righteousness
the Supreme Being
the Supreme Soul
the Swan
the Taal
the Table
the Teacher
the Telescope
the Tempter
the Thousand and One Nights
the Toucan
the Triangle
the True Vine
the Truth
the Twelve
the Twins
the Ukraine
the Unicorn
the Union
the Universal Ego
the Universal Self
the Unmoved Mover
the VIP's
the Vatican
the Vedas
the Very Reverend
the Vine
the Virgin
the Virgin Mary
the Virgin Mother
the Wandering Jew
the Water Bearer
the Water Carrier
the Water Snake
the Way
the Whale
the Wicked One
the Wigwam
the Winged Horse
the Wise Lord
the Wise One
the Wolf
the Wooden Horse
the Word
the Word Made Flesh
the Word of God
the Wreath
the Writings
the Yukon
the abroad
the absolute truth
the abstract
the absurd
the abyss
the administration
the affirmative
the affluent life
the air
the almighty dollar
the alphabet
the altogether
the always wind-obeying deep
the amount
the ancient and honourable
the angel of the bottomless pit
the anouilh
the ape of wisdom
the arch of heaven
the archenemy
the arms of Morpheus
the art of conversation
the art of hoping
the art of the possible
the article
the arts
the assured
the atmosphere of Soul
the attainable
the author of authors
the authorities
the avarice of power
the ax
the back of beyond
the backs
the bad
the battle of life
the be-all and the end-all
the beast
the beast with many heads
the beasts of the field
the beaten path
the beaten track
the beautiful
the beezie-weezies
the believing
the bends
the best
the best ever
the best people
the best words in the best order
the best you can
the best you know how
the beyond
the big battalions
the big idea
the big lie
the big picture
the big smoke
the big stick
the big time
the big top
the bird
the biter bit
the black art
the blahs
the blaze of noon
the blessed
the blind
the blind leading the blind
the block
the blood of life
the bludgeon
the blue
the blue planet
the blue serene
the blues
the boards
the book
the boondocks
the boot
the boot in the face
the border
the bosom of our rest
the bottle
the bottom line
the bottomless pit
the bounce
the bounding main
the boyhood of the year
the brandy of the damned
the brass
the brave
the breaks
the brine
the briny
the briny deep
the brush
the bubble reputation
the buff
the bum's rush
the bunch
the burning tapers of the sky
the bush
the business of barbarians
the business world
the campus
the case
the cat's meow
the cat's pajamas
the chair
the chances are
the chase
the children of God
the children of light
the choir invisible
the chosen
the chuck
the church
the church universal
the cinema
the circumcision
the citizenry
the clash of creeds
the classes
the classics
the clear hyaline
the clinches
the clocksetter
the cloth
the cloven hoof
the club
the coast is clear
the cold shoulder
the comic
the common
the common herd
the commonplace
the community
the compleat
the compleat angler
the complete
the concrete
the condition being such
the confessional
the confessionary
the conn
the conscious
the contrary
the conventions
the cool of the evening
the cops
the corpus
the corridors of power
the couch
the count
the country
the courage of your convictions
the course of events
the courts
the cradle
the creed
the creeps
the cricket no relief
the crippled
the crowd
the crown
the crown of life
the cud
the cunning of the serpent
the cup
the cup that cheers
the curse
the curse of Eve
the daily round
the damned
the dance
the danger is past
the dangerous age
the dansant
the dark
the dark sanctuary of incapacity
the data
the dawn of day
the dawn's early light
the day after tomorrow
the days of our years
the days that are no more
the dead
the dead Summer's soul
the deaf
the deal is off
the deceased
the deep
the deep blue sea
the deep sea
the deeps
the defensive
the defunct
the departed
the depths
the desk
the details
the deuce you say
the devil and all
the devil and the deep blue sea
the devil to pay
the devil you say
the devourer of things
the die is cast
the dim past
the direct opposite
the disadvantaged
the dismal science
the dismals
the dispossessed
the distance
the distressed
the dizzy rounds
the doldrums
the dolefuls
the domain of the impossible
the domain of the possible
the dome of Thought
the dominion of absurdity
the dope
the down-and-out
the downward path
the downward slope
the dragon
the dream of those that wake
the dress of thoughts
the drill
the duration
the earth
the elect
the elements
the empyrean
the enclosed
the end of the line
the end of the rainbow
the ends of the earth
the enemy of creativeness
the ensemble
the entirety
the eternal feminine
the eternal fitness of things
the evil
the evil one
the evil shadow of aspiration
the exact truth
the executive
the expiring day
the exterior
the eye
the fact of the matter
the facts
the facts of the case
the facts of the matter
the fair thing
the faith
the faithful
the family way
the fancy
the far side of
the fat is in the fire
the fat of the land
the feasible
the feast of vultures
the felon winds
the female of the human species
the few
the field
the fights
the first of painters
the first philosophy
the first theology
the flesh
the fleshly
the flip side
the flowing bowl
the following
the footlights
the fore
the forgotten man
the fount whence honour springs
the four corners of the earth
the four elements
the fourth estate
the fowl of the air
the front
the full count
the funny side
the fur fly
the future
the fuzz
the gallows
the gantlet
the gapes
the gas chamber
the gate
the gate of life
the gen
the general drift
the general public
the general tendency
the genuine article
the glad
the glad hand
the glad season of life
the glassy sea
the glorious lamp of Heav'n
the go-ahead
the go-by
the goat god
the god of my idolatry
the gods
the golden touch
the golden years
the good
the good folk
the good hereafter
the good life
the good people
the good side of
the goods
the governness of floods
the government
the grades
the grand style
the grape
the grave
the gray-hooded Ev'n
the great
the great beyond
the great hereafter
the great majority
the great out-of-doors
the great unknown
the great unnumbered
the great unwashed
the great white throne
the great world of light
the greater gods
the greater number
the greatest
the greatest innovator
the greatest number
the green light
the grill
the ground of being
the groves of Academe
the guillotine
the halls of learning
the halt
the handicapped
the handsome thing
the happy land
the hard truth
the hard way
the hard-of-hearing
the harmonious voice of creation
the have-nots
the haves
the hawk
the hay
the health of the soul
the hearing of deaf actions
the heebie-jeebies
the height of your ambition
the helm
the help
the herd
the hereafter
the hills
the hoi polloi
the hole
the holy
the holy of holies
the honest truth
the honest-to-God truth
the honey-heavy dew of slumber
the horde
the horrors
the hot seat
the how
the humanities
the hump
the hunted
the hurdles
the idea
the illimitable
the image of life
the immortals
the impossible
the in thing
the incaulcable
the individual
the ineffable
the inenarrable
the inexpressible
the infirm
the information
the ingroup
the inner circle
the ins
the intelligent
the intense inane
the interests
the intrinsic truth
the invisible
the iron entering the soul
the irrevocable Past
the jackboot
the jaundice of the soul
the jerks
the jig is up
the jimjams
the journey's end
the jumps
the kibosh on
the king of terrors
the knife
the know
the knowing
the koine
the lam
the lament easy light
the lame
the last extremity
the last refuge of a scoundrel
the last straw
the last thing civilized by man
the last thing you expect
the last word
the latest
the latest thing
the latest wrinkle
the latter end
the law
the law of the jungle
the lay of the land
the lead
the legitimate
the lesser gods
the letter
the life of Riley
the light fantastic
the lightning's gleaming rod
the like
the like of
the likes of
the limit
the limit of your patience
the line
the little O
the little men
the little people
the livelong day
the living
the living and breathing
the logic of the heart
the long and short of
the long and the short of
the long green
the lord's Supper
the lost
the lot
the loved one
the low'ring element
the lowdown
the lower cut
the loyal opposition
the luscious liquor
the mailed fist
the main course
the major deities
the majority
the majors
the man in the White House
the man in the street
the many
the market
the marketplace
the mass of the people
the masses
the matter is ended
the measure of all things
the measure of the year
the melting pot
the microscope of the judgment
the middle of nowhere
the middle years
the mighty
the military
the millennium
the million
the mind's immodesty
the ministry
the minor deities
the minority
the minors
the mirror image
the mirror of all courtesy
the mirror of the soul
the mob
the moon
the moon personified
the more it changes
the more it's the same thing
the mores
the morn
the morrow
the mosaic of the Air
the most
the mother of devotion
the mother of prejudice
the movies
the multitude
the mundane
the music of the soul
the music of the spheres
the mystic wine of Night
the mystical jewels of God
the naked ape
the naked truth
the native hue of resolution
the nature of the beast
the nature of things
the necessary
the neck up
the needful
the needle
the needy
the negative
the new look
the new music
the nitty-gritty
the nod
the nonce
the noose
the normal
the normal order of things
the not ourselves
the now
the nth degree
the nude
the numbers
the numbers game
the numinous
the nursery
the nuts
the observed of all observers
the occult
the odds are
the offending Adam
the old Adam
the old college spirit
the old college try
the old country
the old heave-ho
the old man
the old man of the sea
the old one-two
the old woman
the olden time
the only animal that blushes
the only son of Mary
the only universal tongue
the open
the open air
the open road
the opening eyelids of the morn
the opposite extreme
the opposition
the ordinary
the orthodox
the other
the other America
the other day
the other extreme
the other half
the other side
the other side of
the other side of the coin
the other side of the picture
the other side of the tracks
the other way around
the out-of-doors
the painter of the soul
the palace of the Soul
the pale child
the pale populace of Heaven
the palpable obscure
the particular
the particulars
the past
the past again
the people
the people in the front office
the people upstairs
the perfection of nature
the petrifaction of feelings
the physic of the field
the pick
the picture
the pictures
the pill
the pip
the pit
the pits
the plain style
the plain truth
the planet
the plate
the plaything of fortune
the pledge
the plumeless genus of bipeds
the plural
the point
the polar opposite
the poor
the poor man's Parnassus
the populace
the population
the possible
the power elite
the power structure
the powerless
the powers that be
the present
the present age
the present day
the present hour
the present juncture
the present moment
the present occasion
the present time
the press
the prime work of God
the principality
the printing press of all ages
the profane
the profession
the proof of the pudding
the proper thing
the proper thing to do
the proprieties
the prosecution
the proud
the provinces
the prudent
the public
the pulpit
the purple
the quick
the quick and the dead
the quiet-voiced elders
the rabble
the rack
the rackets
the radiant sun
the rage
the rat race
the raw
the ready
the real McCoy
the real Simon Pure
the real thing
the realized ideal
the realm of possibility
the realm of the impossible
the record
the red sweet wine of youth
the reign of Spirit
the religious
the remembrance of things past
the reprobate
the rest is silence
the reverend mother
the reverse image
the rhythmic
the rich
the right Reverend
the right of the strong
the right side of
the right thing
the right thing to do
the right things
the right to live as we wish
the righteous
the ring
the road
the road to ruin
the rope
the rough
the round
the rounds
the ruddy cup
the rule and pattern of speech
the rulers
the ruling spirit of all things
the run of
the runaround
the runs
the sack
the sacred
the salt of the earth
the same
the same damn thing
the same difference
the same old thing
the same way
the saved
the say
the say-so
the scenes
the scoop
the score
the screaming meemies
the screen
the sea-mouth of mortality
the season
the season's look
the second soul of the unhappy
the secular
the seed of Chaos
the seemly
the seen
the self
the sensible
the sere
the serpent
the seven seas
the shades
the shadow of a shade
the shady side
the shakes
the shape of things
the shining ones
the ship
the shoe is on the other foot
the sick
the sightless
the silver livery of advised age
the silver screen
the simple truth
the sincerest form of flattery
the sinews of affairs
the sinews of war
the size of it
the skids
the sleep of the dead
the sleeping partner of life
the slip
the slums
the small hours
the sniffles
the snuffles
the sober truth
the social evil
the soft down of manhood
the soft underbelly of Europe
the soil
the son of Mary
the soul of the world
the soul of wit
call the special
call the specific
call the specifics
call the speech of angels
call the spit and image of
call the spoken word
call the sport of fortune
call the sport of kings
call the squirrel cage
call the stage
call the stake
call the state of affairs
call the status quo
call the stern truth
call the sticks
call the still
call the stork
call the storm blown over
call the storm has blown over
call the story
call the straight and narrow
call the straight of it
call the straight truth
call the strange
call the string
call the strong
call the strong arm
call the stuff
call the subject is closed
call the sublime
call the sublime style
call the suit of night
call the summer of your youth
call the summit
call the supernatural
call the supersensible
call the supreme fiction
call the suspicion of a suspicion
call the sweat of your brow
call the sweet by-and-by
call the sweeter banquet of the mind
call the sword
call the syndicate
call the tag-rag people
call the temporal
call the theater
call the thing
the third dimension
the third estate
the thirtieth of February
the throne
the thunder
the time
the time being
the time of the singing of birds
the times
the tongue of vanity
the tooth of time
the top
the top of your bent
the tops
the touch
the toy of fortune
the trade of kings
the tragic
the transgression of the law
the treadmill
the treasury of everlasting joy
the tribute due unto nature
the tropics
the trots
the true
the true church
the truth
the truth of the matter
the tullies
the turf
the two
the unalloyed truth
the unconscious
the undead
the underground
the underprivileged
the undersigned
the understanding
the underworld
the unemployable
the unemployed
the unfamiliar
the unforeseen
the unholy
the unique
the universal sovereign
the unknowable
the unknown
the unlooked-for
the unqualified truth
the unrighteous
the unrolled scroll of prophecy
the unseeing
the unseen
the unspeakable
the unutterable
the unvarnished truth
the unwritten law
the urban poor
the usual
the vanquished
the various turns of chance
the vasty deep
the veil
the veriest
the very May-morn of his youth
the very Reverend
the very acme and pitch
the very best
the very model
the very pineapple of politeness
the very pink of courtesy
the very thing
the very witching time of night
the very words
the visible
the void
the void above
the vote
the vulgar herd
the wakey nights
the wandering Moon
the warder of the brain
the wat'ry star
the wavy waste
the way it is
the way it looks
the way it shapes up
the way of
the way of it
the way of the world
the way of things
the way the ball bounces
the way the cards fall
the way the cookie crumbles
the way the wind blows
the way things are
the way things fall
the way things go
the way you are
the way you feel
the way you think
the ways of the world
the wealthy
the weary round
the weather
the weed
the well to do
the whatfor
the wheel
the wheels of justice
the wherefore
the wherewith
the wherewithal
the while
the white radiance of eternity
the whitening shower
the whites
the whole
the whole bit
the whole night
the whole range
the whole spectrum
the whole story
the whole truth
the whole way to
the why
the why and wherefore
the whyfor
the wicked
the wild
the wind personified
the winds
the wine of life
the wine-dark sea
the wings of the wind
the wink
the wink of an eye
the wire
the wise
the womb of time
the wooded mountains
the word 'go'
the works
thematic map
theme and variations
theme park
theme song
then and there
then as previously
then-a-days
then-clause
thence-from
theo-
theobroma oil
theological hermeneutics
theological school
theological seminary
theological student
theological virtue
theological virtues
theologico-
theologo-
thology of crisis
theophylline ethylenediamine
theorem of the mean
theoretic atom
theoretic atoms
theoretical arithmetic
theoretical basis
theoretical chemistry
theoretical construct
theoretical economics
theoretical justification
theoretical linguistics
theoretical mechanics
theoretical physics
theoretical specific impulse
theoretical structure
type of beauty
type of being
type of equations
type of evolution
type of games
type of history
type of knowledge
type of probability
type of relativity
type-blind
type-blinded
type-building
type-making
theory-spinning
therapeutic abortion
therapeutic index
there and then
there is no help for it
there is no helping it
there is no question
there is not a shadow of doubt
there is nothing more to be said
there is reason to believe
there's no place like home
there's no two ways about it
therefore because of this
therefore on account of this
therio-
therm-
thermal ammeter
thermal barrier
thermal conductivity
thermal cracking
thermal detector
thermal detectors
thermal diffusion
thermal efficiency
thermal engine
thermal equator
thermal equilibrium
thermal neutron
thermal radiation
thermal reactor
thermal shock
thermal spring
thermal timing relay
thermal unit
thermic fever
thermionic cathode
thermionic current
thermionic emission
thermionic grid emission
thermionic instrument
thermionic tube
thermionic tube circuit
thermionic valve
thermite process
thermo development
thermo-
thermo-inhibitory
thermo-unstable
thermocouple instrument
thermocouple meter
thermocouple pyrometer
thermodynamic equilibrium
thermodynamic potential
thermodynamic temperature
thermodynamics pot
thermoelectric couple
thermoelectric current
thermoelectric effect
thermoelectric thermometer
thermoelctromotive force
thermometer pointer
thermometric titration
thermonuclear arsenal
thermonuclear attack
thermonuclear bomb
thermonuclear explosion
thermonuclear fusion
thermonuclear power
thermonuclear reaction
thermonuclear warhead
thermonuclear weapons
thermos bottle
thermos flask
thermosetting plastic
thermo-
thesaurus dictionary
these days
thesis dramatist
thesis novel
thesis novelist
thesis play
thesis playwright
theta function
thi-
thiacetic acid
thiazine dye
thick and thin
thick as flies
thick as hail
thick as thieves
thick darkness
thick hide
thick of hearing
thick of things
thick register
thick shade
thick shake
thick shell
thick skin
thick soup
thick space
thick squall
thick with
thick-ankled
thick-barked
thick-barred
thick-beating
thick-bedded
thick-billed
thick-blooded
thick-blown
thick-bodied
thick-bossed
thick-bottomed
thick-brained
thick-breathed
thick-cheeked
thick-clouded
thick-coated
thick-coming
thick-coming fancies
thick-cut
thick-decked
thick-descending
thick-drawn
thick-eared
thick-fingered
thick-flaming
thick-flanked
thick-flashing
thick-fleeced
thick-fleshed
thick-flowing
thick-foliaged
thick-footed
thick-girded
thick-growing
thick-grown
thick-haired
thick-head
thick-headed
thick-headedness
thick-hided
thick-hidedness
thick-jawed
thick-jeweled
thick-knee
thick-kneed
thick-knobbed
thick-laid
thick-leaved
thick-legged
thick-lined
thick-lipped
thick-looking
thick-maned
thick-necked
thick-packed
thick-pated
thick-peopled
thick-piled
thick-pleached
thick-plied
thick-ribbed
thick-rinded
thick-rooted
thick-rusting
thick-set
thick-shadowed
thick-shafted
thick-shelled
thick-sided
thick-sighted
thick-skinned
thick-skulled
thick-soled
thick-sown
thick-spaced
thick-spread
thick-sprinking
thick-stalked
thick-starred
thick-stemmed
thick-streaming
thick-swarming
thick-tailed
thick-tailed ray
thick-thronged
thick-toed
thick-tongued
thick-toothed
thick-topped
thick-voiced
thick-walled
thick-warbled
thick-winded
thick-witted
thick-wittedly
thick-wittedness
thick-wooded
thick-woven
thick-wristed
thick-wrought
thickness gauge
thickness of speech
thickness piece
thief ant
thief glass
thief tube
thief-resisting
thief-taker
thieves’ cross
thigh boot
thigh boots
thigh puff
thigmo-
thill horse
thill-horse
thimble lily
thimble skein
thimble-crowned
thimble-eyed
thimble-pie
thimble-shaped
thimble-sized
thin air
thin as a lath
thin as a rail
thin away
thin down
thin end of the wedge
thin ice
thin margin
thin off
thin out
thin person
thin register
thin skin
thin soup
thin space
thin wine
thin-ankled
thin-armed
thin-barked
thin-bedded
thin-bellied
thin-bellied
thin-bellied
thin-bloated
thin-bloated
thin-bottomed
thin-brained
thin-cheeked
thin-clad
thin-coated
thin-cut
thin-descending
thin-eared
thin-faced
thin-featured
thin-film
thin-flanked
thin-fleshed
thin-flowing
thin-frozen
thin-fruited
thin-grown
thin-haired
thin-headed
thin-hipped
thin-laid
thin-leaved
thin-legged
thin-lined
thin-lipped
thin-lippedly
thin-lippedness
thin-necked
thin-officered
thin-peopled
thin-pervading
thin-rinded
thin-set
thin-shelled
thin-shot
thin-skinned
thin-skinnedness
thin-soled
thin-sown
thin-spread
thin-spun
thin-stalked
thin-stemmed
thin-veiled
thin-voiced
thin-walled
thin-worn
thin-woven
thin-wristed
thin-wrought
thing added
thing copied
thing desired
thing done
thing given as a pledge
thing imagined
thing of beauty
thing of interest
thing of naught
thing, the
thing-in-itself
thing-it-self
thing-word
things going against one
things going against you
things to be done
things to do
things-in-themselves
think about
think affirmatively
think aloud
think back
think best
think better of
think better of it
think dependable
think downbeat
think factory
think fit
think good
think hard
think highly of
think ill of
think improbable
think it over
think likely
think little of
think much of
think negatively
think no more of
think no more of it
think nothing of
think of
think one is it
think only of others
think out
think out loud
think over
think piece
think positively
think probable
think proper
think reliable
think tank
think that way about
think the best of
think the world of
think the worst of
think through
think too much of
think twice
think twice about
think unlikely
think up
think well of
think well of yourself
think worlds of
think your head off
think your shit doesn't stink
think-so
think-tank
thinking aloud
thinking cap
thinking machine
thinking of it later
thinking out
thinking over
thinking power
thinking shop
thinking through
thinned-out
thinning agent
thio acid
thio ether
thio salt
thio-
thio-ether
thioacetic acid
thioallyl ether
thioantimonic acid
thioarsenic acid
thioarsenious acid
thiocyan group
thiocyanic acid
thiocyanato group
thiocyanato radical
thioethyl alcohol
thioindigo red B
thioindigo red b
thiol-
thion-
thionic acid
thiopental sodium
thiopentone sodium
thiophosphoric acid
thiosulfuric acid
thiosulphuric acid
third astute
third base
third baseman
third best
third class
third degree
third dimension
third ear
third estate
third estate, the
third eyelid
third force
third hand
third house
third law of motion
third law of thermodynamics
third man
third market
third mate
third mortgage
third officer
third order
this afternoon
this and no other
this and that
this bank and shoal of time
this being so
this big
this day
this day and age
this goodly frame
this hour
this instant
this man's army
this minute
this moment
this morning
this night
this one
this pendent world
this point
this quintessence of dust
this scepter'd isle
this seat of Mars
this second
this single
this size
this stage
this very minute
this way
this world
this-a-way
this-way-ward
this-worldian
this-worldliness
this-worldly
this-worldness
thistle ball
thistle beard
thistle butterfly
thistle cock
thistle crown
thistle dollar
thistle family
thistle finch
thistle funnel
thistle noble
thistle poppy
thistle saffron
thistle sage
thorn-strewn
thorn-tree
thorn-wounded
thorn-wreathed
thornback ray
thornbill warbler
thorny problem
thorny-backed
thorny-edged
thorny-handed
thorny-pointed
thorny-pricking
thorny-thin
thorny-twinning
thor-
thorough bass
thorough brace
thorough light
thorough stone
thorough-
thorough-bind
thorough-bore
thorough-cleanse
thorough-dress
thorough-dry
thorough-felt
thorough-fought
thorough-humble
thorough-light
thorough-lighted
thorough-line
thorough-made
thorough-paced
thorough-pin
thorough-ripe
thorough-shot
thorough-stain
thorough-stitch
thou breath of Autumn's being
thou deep and dark blue ocean
thou scarlet sin
thou unrelenting past
thou weed
thou-shalt-not
though the heavens may fall
thought control
thought disorder
thought disturbance
thought reader
thought reading
thought transference
thought writing
thought-abhorring
thought-bewildered
thought-burdened
thought-challenging
thought-concealing
thought-conjuring
thought-depressed
thought-exceeding
thought-executing
thought-fed
thought-fixed
thought-free
thought-giving
thought-hating
thought-haunted
thought-heavy
thought-heeding
thought-hounded
thought-humbled
thought-imaged
thought-inspiring
thought-instructed
thought-involving
thought-jaded
thought-kindled
thought-laden
thought-lighted
thought-mad
thought-mastered
thought-meriting
thought-moving
thought-numb
thought-out
thought-outraging
thought-pained
thought-peopled
thought-poisoned
thought-pressed
thought-provoking
thought-read
thought-reading
thought-reviving
thought-ridden
thought-saving
thought-set
thought-shaming
thought-sounding
thought-stirring
thought-straining
thought-swift
thought-tight
thought-tinted
thought-tracing
thought-unsounded
thought-winged
thought-working
thought-worn
thought-worthy
thousand dollars
thousand island dressing
thousand million
thousand-acre
thousand-dollar
thousand-dollar bill
thousand-eyed
thousand-footed
thousand-guinea
thousand-handed
thousand-headed
thousand-headed kale
thousand-hued
thousand-jacket
thousand-leaf
thousand-legged
thousand-legger
thousand-legs
thousand-mile
thousand-pound
thousand-round
thousand-sided
thousand-souled
thousand-voiced
thousand-year
thousandth's place
thraco-phrygian
thrall-less
thrall-like
thrall-likethrallborn
thrash about
thrash out
thrash over
thrash soundly
thrasher shark
thrasher whale
thrashing-floor
thrashing-machine
thrashing-mill
thread angle
thread bar
thread blight
thread board
thread cabinet
thread cell
thread count
thread counter
thread cutter
thread drawer
thread drawing
thread dresser
thread eel
thread escutcheon
thread fungus
thread gauge
thread generator
thread herring
thread insert
thread lace
thread lubricator
thread maker
thread mark
thread miller
thread moss
thread paper
thread protector
thread roller
thread spinner
thread splicer
thread spooler
thread tangle
thread winder
thread your way
thread-cutting
thread-leaved
thread-legged
thread-legged bug
thread-lettered
thread-line fishing
thread-marked
thread-measuring
thread-mercerizing
thread-milling
thread-needle
thread-paper
thread-shaped
thread-the-needle
thread-waisted
thread-winding
thread-worn
threaded glass
threader-up
threading lathe
threading machine
threading tool
threadneedle street
threat to health
threatening course
three R’s
three Rs
three balls
three birds
three estates
three hours
three hundred
three o’ cat
three o’clock
three of a kind
three old cat
three parts
three percent
three r’s
three sheets in
three sheets to the wind
three times
three-D
three-a-cat
three-accent
three-acre
three-act
three-aged
three-aisled
three-alarm fire
three-and-a-halfpenny
three-angled
three-arched
three-arm
three-arm protractor
three-armed
three-awned
three-bagger
three-ball
three-ballmatch
three-banded
three-bar
three-base hit
three-basehit
three-bearded
three-bid
three-blade
three-bladed
three-bodied
three-bolted
three-bottle
three-bottom
three-bottom plow
three-bout
three-branch
three-branched
three-bushel
three-by-four
three-capsuled
three-card
three-card lant
three-card loo
three-card monte
three-card trick
three-celled
three-centered arch
three-charge
three-charge rate
three-chinned
three-circle
three-circuit
three-circuit switch
three-class
three-class system
three-clause
three-cleft
three-coat
three-cocked
three-color
three-color photography
three-color printing
three-color process
three-color theory
three-colored
three-colour
three-component
three-coned
three-corded
three-corner
three-cornered
three-cornered hat
three-cornered needle
three-corneredness
three-course
three-crank
three-crowned
three-cup
three-cylinder
three-day
three-day fever
three-day measles
three-dayed
three-deck
three-deck vessel
three-decked
three-decker
three-deep
three-dimensional
three-dimensional chess
three-dimensional display
three-dimensional photography
three-dimensional war
three-dimensional wave
three-dimensionalness
three-dip
three-dropped
three-eared
three-echo
three-edged
three-effect
three-electrode
three-em space
three-eyed
three-faced
three-farthing
three-farthings
three-fathom
three-fibered
three-field
three-figure
three-fingered
three-floored
three-flowered
three-fold
three-foot
three-footed
three-forked
three-formed
three-four time
three-fourths
three-fruited
three-gaited
three-grained
three-groined
three-groove
three-grooved
three-guinea
three-halfpence
three-halfpenny
three-halfpennyworth
three-hand
three-handed
three-headed
three-high
three-hinged
three-hooped
three-horned
three-horse
three-hour
three-in-hand
three-in-one
three-inch
three-index
three-iron
three-island ship
three-jointed
three-layered
three-leaf
three-leaved
three-legged
three-legged race
three-letter
three-lettered
three-life
three-light
three-line
three-lined
three-lipped
three-lobed
three-man
three-mast
three-masted
three-master
three-mile
three-mile limit
three-minute
three-minute glass
three-month
three-monthly
three-mouthed
three-move
three-mover
three-name
three-necked
three-nerved
three-ounce
three-out
three-ovuled
three-pair
three-part
three-part harmony
three-part time
three-parted
three-pass
three-peaked
three-petaled
three-phase
three-phase alternating current
three-phase alternator
three-phase motor
three-phase resistance welder
three-phased
three-phaser
three-piece
three-piece suit
three-pile
three-piled
three-piler
three-pint
three-plait
three-ply
three-point
three-point landing
three-point perspective
three-point problem
three-point switch
three-point turn
three-pointed
three-span
three-speed
three-spined
three-spored
three-spot
three-spread
three-square
three-square file
three-stage rocket
three-star
three-star general
three-step
three-step rocket
three-sticker
three-storied
three-story
three-strand
three-stranded
three-stringed
three-striped
three-striper
three-styled
three-suited
three-syllable
three-syllable law
three-syllabled
three-tailed
three-thorned
three-thorned acacia
three-thread
three-throw
three-tie
three-tie joint
three-tier
three-tiered
three-time
three-tined
three-toed
three-toed woodpecker
three-toes
three-ton
three-tongued
three-toothed
three-toothed cinquefoil
three-torque
three-tripod
three-up
three-valued
three-valved
three-volume
three-way
three-way receiver
three-way spread
three-way switch
three-wayed
three-week
three-weekly
three-wheeled
three-wheeler
three-winged
three-wire
three-wire cable
three-wire generator
three-wire system
three-wive
three-woods
three-wormed
three-year
three-year-old
three-years
threefold block
threefold purchase
threefold tackle
threepenny bit
threepenny piece
threecore and ten
threescore years and ten
thresh out
thresh over
thresher shark
thresher whale
threshing floor
threshing machine
threshold exposure
threshold frequency
threshold of sensation
thrice and four times blessed
thrice happy
thrice-accented
thrice-blessed
thrice-boiled
thrice-crowned
thrice-famed
thrice-great
thrice-happy
thrice-honorable
thrice-noble
thrice-sold
thrice-told
thrice-venerable
thrice-worthy
thrift shop
thrift society
thrift stamp
thrifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thriller-diller
thrilling all over
thriving condition
throat brail
throat cavity
throat halyards
throat microphone
throat mike
throat plate
throat seizing
throat sheet
throat sweetbread
throat track
throat-clearing
throat-clutching
throat-cracking
throat-full
throat-latch
throat-slitting
throat-swollen
throbbing pain
thrones of death
throgmorton street
thromb-
thrombo-
throne of God
throne room
throne-born
throne-capable
throne-shattering
throne-worthy
throned on highest bliss
throng in
throng with
throstle cock
throstle-cock
throttle down
throttle lever
throttle valve
throttling bar
throttling governor
through and through
through bass
through bolt
through bond
through bridge
through check
through cut
through fire and water
through message
through rate
through retort
through road
through shake
through stane
through stone
through street
through switch
through the agency of
through the good offices of
through the instrumentality of
through the medium of
through the mill
through the night
through thick and thin
through way
through with
through with a fine-tooth comb
through-
through-and-through
through-blow
through-carve
through-cast
through-composed
through-drainage
through-drive
through-formed
through-galled
through-ether
through-joint
through-key
through-lance
through-mortise
through-nail
through-other
through-passage
through-pierce
through-rod
through-shoot
through-splint
through-stone
through-swim
through-thrill
through-toll
through-tube
through-tube boiler
throughout the ages
throughout the course of
throughout the world
throw a curve
throw a curve ball
throw a fight
throw a fit
throw a game
throw a lot of weight
throw a party
throw a pass
throw a pot
throw a scare into
throw a sop to
throw a stone at
throw a wet blanket on
throw a whammy
throw a wrench in the machinery
throw about
throw at
throw away
throw away the opportunity
throw away the prepared text
throw away the scabbard
throw away the speech
throw back
throw blind fear into
throw cold water on
throw doubt upon
throw down
throw down the gage
throw down the gauntlet
throw down the glove
throw down your arms
throw downstairs
throw dust in your eyes
throw forth
throw good money after bad
throw in
throw in prison
throw in the face of
throw in the sponge
throw in the towel
throw in together
throw in with
throw in your teeth
throw into a snit
throw into a stew
throw into a swivet
throw into a tizzy
throw into confusion
throw into disorder
throw into jail
throw into the shade
throw lathe
throw light on
throw light upon
throw line
throw money around
throw mud at
throw of dice
throw of the dice
throw off
throw off all disguise
throw off balance
throw off the scent
throw off your guard
throw on
throw on one's beam end
throw on paper
throw on the junk heap
throw on the market
throw on your beam ends
throw open
throw open to
throw out
throw out a feeler
throw out a hint
throw out a smoke screen
throw out of gear
throw out of joint
throw out of order
throw out on your ear
throw out the window
throw out your chest
throw over
throw overboard
throw rug
throw stick
throw stones at
throw the book at
throw the bull
throw the first stone
throw the spotlight on
throw to the dogs
throw together
throw under the jailhouse
throw up
throw up the cards
throw up your hands
throw your arms around
throw your back at
throw your hat in the ring
throw your money away
throw your weight around
throw your weight into the scale
throw yourself at the feet of
throw yourself at the head of
throw yourself into
throw yourself into the arms of
throw yourself on
throw yourself on your knees
throw-
throw-back
throw-crook
throw-forward
throw-in
throw-off
throw-on
throw-over
throw-stick
throwing away
throwing downstairs
throwing engine
throwing iron
throwing knife
throwing net
throwing open
throwing out
throwing overboard
throwing power
throwing stick
throwing your hat in the ring
throwing-in
throwing-stick
thrown away
thrown for a loss
thrown into the shade
thrown over
thrown silk
thrown together
thrum-eyed
thrush blackbird
thrush brown
thrush fungus
thrush lichen
thrush nightingale
thrush tit
thrush-breast heart
thrust and parry
thrust aside
thrust at
thrust augmentation
thrust augmenter
thrust back
thrust bearing
thrust coefficient
thrust deduction
thrust down
thrust fault
thrust hoe
thrust in
thrust in the face of
thrust out
thrust over
thrust plane
thrust shaft
thrust to one side
thrust upon
thrust yourself forward
thrust yourself upon
thrusting under
thuja oil
thulium oxide
thumb a ride
thumb ball
thumb bottle
thumb box
thumb cleat
thumb down
thumb flint
thumb glass
thumb hole
thumb holing
thumb index
thumb knot
thumb lancet
thumb lock
thumb loose
thumb notch
thumb nut
thumb one's nose at
thumb over
thumb pad
thumb pin
thumb piston
thumb plane
thumb pot
thumb ring
thumb rule
thumb through
thumb turn
thumb your nose
thumb your nose at
thumb your way
thumb-and-finger
thumb-fingered
thumb-index
thumb-kissing
thumb-made
thumb-mark
thumb-marked
thumb-nail
thumb-ring
thumb-rope
thumb-screw
thumb-shaped
thumb-stall
thumb-sucker
thumb-sucking
thumb-worn
thumbing a ride
thumbnail sketch
thumbs down
thumbs up
thumbs-down
thumbs-up
thump in
thump the tub for
thump-cushion
thumped-in landing
thunder against
thunder along
thunder and lightning
thunder at the top of your voice
thunder ax
thunder forth
thunder god
thunder gods
thunder mug
thunder of applause
thunder planet
thunder plant
thunder pumper
thunder rod
thunder snake
thunder spirit
thunder tube
thunder-armed
thunder-baffled
thunder-bearer
thunder-blast
thunder-breathing
thunder-charged
thunder-clap
thunder-cloud
thunder-darting
thunder-delighting
thunder-dirt
thunder-fearless
thunder-footed
thunder-forging
thunder-fraught
thunder-free
thunder-girt
thunder-god
thunder-guiding
thunder-gust
thunder-hid
thunder-laden
thunder-maned
thunder-rejoicing
thunder-riven
thunder-ruling
thunder-scarred
thunder-scathed
thunder-shod
thunder-slain
thunder-smitten
thunder-splintered
thunder-split
thunder-splitten
thunder-stone
thunder-storm
thunder-teeming
thunder-throwing
thunder-thwarted
thunder-tipped
thunder-tongued
thunder-voiced
thunder-wielding
thunderstorm cirrus
thus and so
thus and thus
thus far
thus far and no farther
thwacking frame
thwacking horse
thwacking knife
thwacking stool
thwaite shad
thwart motion
thwart-marks
thwart-ship
thwartwise motion
thy name is woman
thy nature's weakness
thyine wood
thym-
thyme camphor
thyme dodder
thyme oil
thyme-capped
thyme-fed
thyme-flavored
thyme-grown
thyme-leaved
thyme-scented
thymic acid
thymo-
thymol blue
thymonucleic acid
thymus death
thymus gland
thymus histone
thyr-
thyr-
thyro-
throid gland
thyroid-stimulating hormone

ti palm
ti tree
tib-cat
tibetan terrier
tibeto-burman
tibio-
tic douloureux
tic-polonga
tic-tac-toe
tick bird
tick clover
tick doleru
tick fancy
tick fever
tick off
tick over

tick paralysis
tick trefoil
tick-a-tick
tick-bird
tick-borne typhus
tick-tack
tick-tack-toe
tick-tack-too
tick-tick
ticked off
ticker market
ticker tape
ticker-tape parade
ticket agency
ticket agent
ticket booth
ticket chopper
ticket clerk
ticket collector
tide work
tide-beaten
tide-beset
tide-bound
tide-caught
tide-covered
tide-driven
tide-flooded
tide-forsaken
tide-free
tide-gauge
tide-generating
tide-locked
tide-mark
tide-marked
tide-mill
tide-predicting
tide-producing
tide-ribbed
tide-rip
tide-rode
tide-swept
tide-taking
tide-tossed
tide-trapped
tide-waiter
tide-washed
tide-water
tide-worn
tideland spruce
tidewater cypress
tidewater glacier
tidy step
tidy sum
tidy up
tidy-kept
tidy-looking
tidy-minded
tidy-up	ie band
tie bar
tie beam
tie bolt
tie breaker
tie clasp
tie clip
tie conductor
tie cord
tie down
tie dyeing
tie feeder
tie hand and foot
tie in
tie in a reef
tie in with
tie knot
tie line
tie mill
tie off
tie one on
tie periwig
tie plate
tie point
tie post
tie rod
tie rope
tie silk
tie stay
tie strap
tie tack
tie the hands of
tie the knot
tie the nuptial knot
tie the wedding knot
tie up
tie up with
tie up with red tape
tie up your money in
tie wall
tie your hands
tie-
tie-and-dye
tie-down
tie-dyeing
tie-in
tie-in sale
tie-off rail
tie-on
tie-out
tie-plater
tie-tie
tie-up
tie-wig	
tied down
tied house
tied image
tied letters
tied score
tied to your apron strings
tied up
tied up in
tier building
tier ranger
tier shot
tier table
tierce de Picardie
tierce major
tierce minor
tierce point
tierce rhyme	
tiers etat
tiers-argent
ties of affection
ties of blood
tiger beetle
tiger bittern
tiger cat
tiger chop
tiger cocoa
tiger cowrie
tiger finch
tiger fish
tiger frog
tiger grass
tiger heart
tiger lily
tiger milk
tiger mosquito
tiger moth
tiger python
tiger salamander
tiger shark
tiger shell
tiger snake
tiger swallowtail
tiger wolf
tiger's milk
tiger's-eye
tiger-cat
tiger-footed
tiger-lily heart
tiger-looking
tiger-marked
tiger-minded
tiger-mouth
tiger-passioned
tiger-spotted
tiger-striped
tight cooper
tight discipline
tight fit
tight grip
tight hand
tight joint
tight money
tight purse strings
tight rein
tight rope
tight ship
tight spot
tight squeeze
tight-ankled
tight-belted
tight-bodied
tight-booted
tight-bound
tight-clap
tight-clenched
tight-closed
tight-draped
tight-drawn
tight-fisted
tight-fitting
tight-gartered
tight-hosed
tight-knit
tight-laced
tight-limbed
tight-lipped
tight-looking
tight-made
tight-mouthed
tight-necked
tight-packed
tight-pressed
tight-reining
tight-rooted
tight-set
tight-shut
tight-skinned
tight-skirted
tight-sleeved
tight-stretched
tight-tie
tight-valved
tight-waisted
tight-wound
tight-woven
tight-wristed
tighten the purse strings
tighten your belt
tightening pulley
tightrope walker
tiglic acid
til oil
til seed
til tree
tile drain
tile hook
tile kiln
tile maker
tile ore
tile painter
tile pin
tile pipe
tile red
tile roof
tile setter's hammer
tile-clad
tile-covered
tile-fish
tile-pin
tile-red
tile-roofed
till alarm
till basket
till death
till death do us part
till doomsday
till hell freezes over
till money
till now
till shrimps learn to whistle
till the cows come home
till the end of time
till the soil
till then
till time runs out
till time stops
till you are blue in the face
till you're blue in the face
tiller bow
tiller chains
tiller lines
tiller of the soil
tiller rope
tilleul green
tilly-fally
tilly-vally
tilt angle
tilt at
tilt at windmills
tilt boat
tilt bonnet
tilt hammer
tilt mill
tilt roof
tilt steel
tilt with
tilt-boat
tilt-hammer
tilt-top table
tilt-up
tilt-yard
tilting chest
tilting conveyor
tilting fillet
tilting ground
tilting hammer
tilting helmet
tilting level
tilting yard
tim-whiskey
timbale case
timbale iron
timber bamboo
timber bar
timber beetle
timber borer
timber contractor
timber cruiser
timber cutter
timber estimating
timber estimator
timber faller
timber forest
timber frame
timber grapple
timber grouse
timber hitch
timber jumper
timber knot
timber leader
timber limit
timber line
timber loader
timber mare
timber marker
timber measurer
timber mill
timber preserver
timber rattlesnake
timber right
timber rot
timber scribe
timber shifter
timber toe
timber topper
timber topping
timber tower
timber tree
timber unloader
timber wheels
timber wolf
timber worm
timber yard
timber-boring
timber-built
timber-carrying
timber-ceilinged
timber-covered
timber-cutting
timber-devouring
timber-eating
timber-floating
timber-framed
timber-headed
timber-hitch
timber-laden
timber-line
timber-lined
timber-producing
timber-propped
timber-skeletoned
timber-strewn
timber-toed
time flies
time fuse
time globe
time gun
time hanging on your hands
time hit
time immemorial
time in
time interval
time just ahead
time killer
time lag
time lamp
time lead
time limit
time loan
time lock
time machine
time marches on
time measurement
time money
time note
time of day
time of life
time of year
time of your life
time off
time on your hands
time out
time out of mind
time out of time
time pattern
time policy
time quadrature
time rating
time recorder
time runs out
time scale
time schedule
time selling
time sense
time series
time service
time sharing
time sheet
time shrapnel
time sight
time signal
time signature
time space
time spirit
time stamp
time star
time study
time switch
time thrust
time ticket
time to burn
time to catch your breath
time to come
time to kill
time to spare
time train
time trial
time triangle
time value
time was
time waster
time without end
time zone
time's caravan
time's forelock
time-authorized
time-ball
time-bargain
time-barred
time-battered
time-beguiling
time-bent
time-bettering
time-bewasted
time-binding
time-blackened
time-blanched
time-born
time-bound
time-breaking
time-canceled
time-changed
time-cleft
time-consuming
time-delay relay
time-deluding
time-discolored
time-eaten
time-economizing
time-enduring
time-expired
time-exposure
time-fused
time-gnawn
time-halting
time-hastening
time-honored
time-honored practice
time-honoured
time-interval meter
time-keeper
time-killing
time-lag
time-lapse
time-lapse photography
time-lasting
time-limit
time-marked
time-measuring
time-mellowed
time-motion study
time-noting
time-out
time-pressed
time-rent
time-rusty
time-saver
time-saving
time-scarred
time-served
time-server
time-serving
time-sharing
time-shrouded
time-space
time-spirit
time-table
time-taught
time-tested
time-tried
time-wasted
time-wasting
time-wearied
time-white
time-withered
time-worn
timeo Danaos et dona ferentes
times of old
times of yore
times past
times without number
times, the
timing chain
timing gears
timing pulse
timing screw
timing unit
timing valve
timothy grass
tin ash
tin bronze
tin calciner
tin can
tin chloride
tin cow
tin cry
tin crystal
tin cup
tin dichloride
tin dioxide
tin disease
tin ear
tin fish
tin foil
tin frame
tin glaze
tin god
tin hare
tin hat
tin kettle
tin liquor
tin lizzie
tin loaf
tin monoxide
tin opener
tin ore
tin oxide
tin pail
tin pan alley
tin pest
tin plague
tin plate
tin plater
tin pot
tin pulp
tin putty
tin pyrite
tin pyrites
tin salt
tin shop
tin smelter
tin snips
tin soldier
tin spirit
tin spirits
tin spot
tin stream
tin streamer
tin streaming
tin tack
tin tetrachloride
tin wash
tin washing
tin wedding
tin whistle
tin-bearing
tin-bottomed
tin-bound
tin-bonder
tin-capped
tin-colored
tin-covered
tin-eared
tin-edged
tin-filled
tin-foil
tin-foil paper
tin-foiler
tin-glass
tin-glazed
tin-handled
tin-kettle
tin-kettler
tin-lined
tin-mailed
tin-opener
tin-pan
tin-pan alley
tin-plate
tin-plate worker
tin-plated
tin-plating
tin-pot
tin-pottery
tin-pottiness
tin-potty
tin-roofed
tin-stone
tin-tabled
tin-tack
tin-type
tin-whistle
tin-white
tina process
tincture of iodine
tincture of opium
tincture press	
tinder fungus
tinder-cloaked	
tinder-dry
tinea barbae	
ting ware
ting-a-ling	
tingle with excitement	
tinhorn gambler
tink-a-tink
tinker mackerel
tinker up	
tinker's dam	
tinker's damn	
tinker's damn, a	
tinker's weed	
tinkle-tankle
tinkle-tankling	
tinned dog	
tinned goods	
tinning stack	
tinsel-bright	
tinsel-clad	
tinsel-covered	
tinsel-embroidered	
tinsel-paneled	
tinsel-slippered	
tint block	
tint for tant	
tint meter	
tint photometer	
tint tool	
tiny bit
tip and run
tip cap
tip car
tip cheese
tip crane
tip in
tip off
tip over
tip plant
tip roast
tip roll
tip sled
tip slide
tip speed
tip table
tip the hat to
tip the scale
tip the scales
tip truck
tip van
tip wagon
tip worm
tip your hand
tip-
tip-and-run
tip-cat
tip-crowning
tip-curved
tip-eared
tip-finger
tip-in
tip-off
tip-on
tip-tap
tip-tilted
tip-top
tip-top table
tip-up
tip-up table	ippa-malku	ipper truck	ipper-off	ippet grebe	ippet-scuffle	ipping center	ippling house	ippling-house
tipsy cake
tipsy key
tipsy-cake
tipsy-topsy
tire becker
tire bender
tire borer
tire buffer
tire carrier
tire case
tire cement
tire chain
tire changer
tire chipper
tire clamp
tire compressor
tire cooler
tire core
tire cover
tire curler
tire dresser
tire examiner
tire fastener
tire filler
tire finisher
tire fitter
tire gauge
tire heater
tire holder
tire iron
tire lacing
tire lock
tire mold
tire molder
tire out
tire preservative
tire press
tire pressman
tire prier
tire protector
tire pump
tire rack
tire remover
tire repairman
tire retreader
tire roller
tire setter
tire shaper
tire shoe
tissue paper
tissue-building
tissue-changing
tissue-destroying
tissue-forming
tissue-paper
tissue-producing
tissue-secretion	
tisty-tosty
tit babbler
tit drill	
tit for tat
tit in the wringer
tit screw
tit-bit
tit-tat-toe
tit-up
tita root
titading or caption	
titan crane
titan-
titanic acid
titanic anhydride
titanic iron ore
titanic oxide
titanium dioxide
titanium oxide
titanium white
titano-
titer test
tithe barn
tithe collector
tithe gatherer
tithe man
tithe pig
tithe proctor
tithe-collecting
tithe-free
tithe-paying
tithing-man	
title bearer
title border
title catalog
title catalogue
title deed
title deeds and papers
title essay
title hero
to advantage
to all appearances
to all intents and purposes
to all seeming
to an extent
to an inch
to any end
to atone for
to be brief
to be counted on
to be counted on your fingers
to be depended upon
to be desired
to be exact
to be expected
to be fair
to be had
to be on the road
to be precise
to be preferred
to be reckoned on
to be relied upon
to be seen
to be specific
to be sure
to be trusted
to beat the Dutch
to beat the band
to beat the deuce
to beat the devil
to bits
to blame
to boot
to cite an instance
to come
to come to the point
to completion
to crown all
to cut the matter short
to date
to death
to do
to everywhere
to excess
to explain
to extremes
to fit the pocketbook
to gain some private ends

to gild refined gold

to go

to good account

to good effect

to good purpose

to good use

to grin like a Cheshire cat

to guess

to hand

to have and to hold

to have sex

to hawse

to heel

to hell and back

to his executors and assigns

to his heirs

to his heirs and assigns

to illustrate

to infinity

to judge by appearances

to kalon

to keep

to landward

to lease

to leeward

to let

to little purpose

to make a dent

to make a guess

to make a long story short

to name an instance

to no extent

to no purpose

to nourish a viper in your bosom

to one side

to order

to paint the lily

to perfection

to pieces

to post on a diagonal

to profit

to prove the point

to relieve yourself

to retain

to rights

to say nothing of

to sell
to shards

to shreds

to smithereens

to some degree

to some extent

to some purpose

to spare

to speak of

to speak truthfully

to splinters

to state the fact

to state the truth

to such an extent

to tatters

to tell the truth

to that place

to the account of

to the amount of

to the backbone

to the bad

to the best of your ability

to the best of your belief

to the best of your knowledge

to the bitter end

to the brim

to the contrary

to the core of

to the crack of doom

to the credit of

to the death

to the edge of doom

to the end

to the end of time

to the end that

to the extreme

to the eye

to the fore

to the four corners of the earth

to the four winds

to the front

to the full

to the good

to the heart of

to the heirs of his body

to the highest degree

to the hilt

to the king's taste

to the last gasp
to the last trumpet
to the left
to the letter
to the life
to the limit
to the manner born
to the marrow
to the memory of
to the minute
to the nth degree
to the nth power
to the past
to the point
to the point of exhaustion
to the purpose
to the queen's taste
to the rear
to the right
to the same degree
to the second
to the side
to the skies
to the sky
to the teeth
to the top of your bent
to the tune of
to the utmost
to the wind
to the windward
to the wise
to the zenith
to this day
to this place
to throw a perfume on the violet
to what extent
to what place
to which place
to windward
to wit
to year and day
to your account
to your amazement
to your astonishment
to your cost
to your credit
to your delight
to your disgust
to your displeasure
to your face

to your fancy

to your fingertips

to your great glee

to your great surprise

to your health

to your heart's content

to your knowledge

to your liking

to your mind

to your satisfaction

to your shame

to your shame be it spoken

to your surprise

to your taste

to your utmost

to your way of thinking

to-
to-and-fro

to-and-fros

to-and-ko

to-arrive

to-be

to-break

to-burst

to-day

to-do

to-dos

to-draw

to-drive

to-fall

to-morn

to-morrow

to-name

to-night

to-rend

to-rights

to-side

to-tear

to-year

toad bug

toad grass

toad lily

toad orchis

toad rush

toad snatcher

toad spit

toad spittle
toad spot
toad stabber
toad sticker
toad's-mouth
toad-bellied
toad-blind
toad-eat
toad-eater
toad-fish
toad-flax
toad-frog
toad-green
toad-hating
toad-housing
toad-in-the-hole
toad-legged
toad-shaped
toad-spotted
toad-swollen
toadstool disease
toady to
toad color
toad list
toad rack
toad water
toast-brown
toasted cheese sandwich
toasting fork
toasting iron
tobacco addiction
tobacco bagger
tobacco barn
tobacco beetle
tobacco belt
tobacco box
tobacco brown
tobacco bug
tobacco camphor
tobacco carton
tobacco case
tobacco chewing
tobacco cloth
tobacco cultivator
tobacco cutter
tobacco dryer
tobacco dust
tobacco fertilizer
tobacco flea beetle
tobacco granulator
tobacco grater
tobacco hawk moth
tobacco heart
tobacco hornworm
tobacco juice
tobacco lath
tobacco leaf miner
tobacco liquor
tobacco liquorer
tobacco machine
tobacco machinery
tobacco mildew
tobacco molder
tobacco mosaic
tobacco mosaic virus
tobacco panner
tobacco pipe
tobacco pouch
tobacco press
tobacco rack
tobacco retainer
tobacco road
tobacco roller
tobacco shaver
tobacco shed
tobacco shop
tobacco smoker
tobacco smoking
tobacco sprayer
tobacco spreader
tobacco stick
tobacco stopper
tobacco store
tobacco stripper
tobacco thrips
tobacco tongs
tobacco twister
tobacco user
tobacco water
tobacco wilt
tobacco worm
tobacco-abusing
tobacco-box
tobacco-box skate
tobacco-breathed
tobacco-growing
tobacco-pipe
toe the mark
toe upon
toe wall
toe weight
toe-dance
toe-danced
toe-dancing
toe-drop
toe-in
toe-mark
toe-punch
toffee dipper
toffee-apple
toffee-nosed
tog out
tog up
toga virilis
together on
together with
toggle bolt
toggle chain
toggle harpoon
toggle hook
toggle iron
toggle joint
toggle motion
toggle press
toggle rail
toggle riveter
toggle switch
toggle-joint press
toggle-jointed
ught-rider
toht-riding
tohu-bohu
toil and moil
toil and trouble
toil-assuaging
toil-beaten
toil-bent
toil-exhausted
toil-hardened
toil-marred
toil-oppressed
toil-stained
toil-stricken
toil-tried
toil-weary
tol-de-rol
tol-lol
tol-lol-de-rol
tol-lol-ish
tolerance limits
toll agent
toll bait
toll bar
toll board
toll bridge
toll call
toll clerk
toll collector
toll corn
toll dish
toll farmer
toll highway
toll inspector
toll line
toll road
toll thorough
toll traverse
toll turn
toll-book
toll-dish
toll-free
toll-gatherer
toll-house
tollhouse cooky
tolling dog
tolling of the knell
tolosa wood
tolu balsam
tolu resin
tolu tree
tolu-
toluene trichloride
toluene trifluoride
toluic acid
toluidine blue
toluidine red
toluric acid
tolyl radical
tolyl group
tolyl radical
tom and jerry
tom collins
tom hurry
tom pudding
tom tailor
tom thumb
tom tiddler's ground
tom turkey
tom-ax
tom-cod
tom-fool
tom-noddy
tom-tit
tom-toe
tom-tom
tom-trot
tomato aspic
tomato black rot
tomato blight
tomato bouillon
tomato can
tomato curly top
tomato eggplant
tomato fern
tomato fruitworm
tomato gall
tomato hamper
tomato hawk moth
tomato hornworm
tomato juice
tomato ketchup
tomato leaf blight
tomato leaf mold
tomato mosaic
tomato packer
tomato paste
tomato pulp
tomato puree
tomato red
tomato sauce
tomato scalding
tomato soup
tomato sphinx
tomato streak
tomato stripe
tomato transplanter
tomato trellis
tomato wilt
tomato worm
tomato yellows
tomato-colored
tomato-growing

tomato-leaf

tomato-washing

tomb bat

tomb house

tomb maker

tomb tower

tomb-bat

tomb-black

tomb-breaker

tomb-dwelling

tomb-making

tomb-paved

tomb-robbering

tomb-strewn

tomblike silence

tombstone marking

tomcat around

tomkin post

tommy bar

tommy book

tommy day

tommy gun

tommy hole

tommy master

tommy noddy

tommy shop

tommy system

tommy-axe

tommy-gun

ton-foot

ton-force

ton-kilometer

ton-mile

ton-mileage

ton-up

tonal gap

tonal island

tone accent

tone arm

tone cluster

tone color

tone colour

tone control

tone deafness

tone down

tone gap

tone grammar
tone island
tone language
tone long
tone measurer
tone of voice
tone of your voice
tone painting
tone pattern
tone picture
tone poem
tone poet
tone poetry
tone quality
tone row
tone syllable
tone tester
tone up
tone wheel
tone with
tone-deaf
tone-full
tone-producing
tone-setter
tone-up
toned down
tong borer
tongue and groove
tongue bar
tongue bird
tongue bit
tongue blade
tongue bone
tongue compressor
tongue cover
tongue depressor
tongue fern
tongue fish
tongue graft
tongue grafting
tongue grass
tongue hero
tongue in cheek
tongue joint
tongue pipe
tongue shell
tongue sole
tongue swallowing
tongue tree
tongue truck
tongue twister
tongue work
tongue worm

tongue-and-groove joint
tongue-back
tongue-baited
tongue-hang
tongue-bitten
tongue-blade
tongue-bound
tongue-dumb
tongue-flowered
tongue-free
tongue-front
tongue-garbled
tongue-gilt
tongue-graft
tongue-haltered
tongue-hammer
tongue-jangling
tongue-kill
tongue-lash
tongue-lashing
tongue-leaved
tongue-lolling
tongue-murdering
tongue-pad
tongue-point
tongue-puissant
tongue-shaped
tongue-tack
tongue-taming
tongue-taw
tongue-tie
tongue-tied
tongue-tier
tongue-valiant
tongue-wagging
tongue-walk
tongue-wanton
tonguing plane

tonguing-and-grooving plane

tonic accent
tonic chord
tonic epilepsy
tonic key

tonic major
tonic minor
tonic motion
tonic section
tonic sol-fa
tonic sol-faist
tonic spasm
tonic treatment
tonic triad
tonic water

tonka bean
tonka bean camphor
tonka-bean camphor
tonka-bean wood

tonnage coefficient
tonnage deck
tonnage displacement
tonnage duty
tonnage length
tonnage opening
tonnage pool
tonnage train
tonnage well
tonneau cover
tonneau lamp

tonneau windshield
tono-
tonsill-
tonsured cleric
too bad
too big
too big for your britches
too big for your shoes
too clever by half
too deep for
too early
too far
too few
too frugal
too funny for words
too killing for words
too late
too little
too many cooks
too many irons in the fire
too much
too much at once
too much for
too much of a good thing
too much with us
too precious for words
too soon
too soon off the mark
too-aged
too-anxious
too-big
too-bigness
too-bold
too-celebrated
too-confident
too-coy
too-dainty
too-devoted
too-early
too-earnest
too-familiar
too-fervent
too-forced
too-good
too-hectic
too-large
too-late
too-lateness
too-laudatory
too-long
too-much
too-muchness
too-near
too-old
too-patient
too-piercing
too-proud
too-ripe
too-short
too-soon
too-soonness
too-timely
too-too
too-trusting
too-willing
too-wise
too-young
toodle-oo
tool angle
tool apron
tool bag
tool belt
tool boy
tool cabinet
tool car
tool carriage
tool carrier
tool cart
tool case
tool chest
tool coupling
tool demagnetizer
tool engineer
tool engineering
tool examiner
tool fasher
tool fettler
tool filer
tool finder
tool fitter
tool forge
tool forger
tool gauge
tool glazer
tool grinder
tool grinding
tool handle
tool heater
tool house
tool kit
tool lubricant
tool miller
tool oil
tool plane
tool post
tool press
tool rack
tool reclamer
tool regrinding
tool repairer
tool rest
tool roll
tool set
tool sharpener
tool shed
tool shop
tool socket
tool spindle
tool stamper
tool stand
tool steel
tool storekeeper
tool subject
tool table
tool temper
tool tray
tool treating
tool truck
tool turner
tool wagon
tool whetter
tool-and-die maker
tool-cleaning
tool-cutting
tool-dresser
tool-dressing
tool-maker
tool-sharpening
tool-using
tooling up
toolroom lathe	
tools and machinery
toot plant
toot your own horn
tooth and nail
tooth ax
tooth caliper
tooth chisel
tooth cleaner
tooth cough
tooth cress
tooth decay
tooth doctor
tooth edge
tooth fever
tooth filling
tooth for tooth
tooth forceps
tooth fungus
tooth gauge

tooth key
tooth mark
tooth ornament
tooth paste
tooth plane
tooth plugger
tooth powder
tooth puller
tooth pulp
tooth rail
tooth rash
tooth relic
tooth sac
tooth shell
tooth violet
tooth wheel
tooth wound
tooth-billed
tooth-bred
tooth-brush
tooth-chattering
tooth-drawer
tooth-extracting
tooth-leaved
tooth-marked
tooth-pulling
tooth-rounding
tooth-set
tooth-setting
tooth-shaped
tooth-shell
tooth-tempting
tooth-winged
toothache grass
toothache tree
toothbrush tree
toothed whale
toothed-billed
toothful grin
toothing plane
toothy-peg
tootle bug
tootsy-wootsies
tootsy-wootsy
top banana
top beam
top billing
top block
top boot
top boots
top brass
top burton
top cinder
top cleaner
top cow
top deck
top dog
top drawer
top dresser
top dressing
top executive
top flight
top floor
top gallery
top grafting
top hamper
top hat
top horse
top lift
top light
top line
top liner
top milk
top notch
top of house
top of the world
top off
top out
top part
top people
top price
top priority
top round
top secret
top sergeant
top shape
top side
top slice
top slicing
top speed
top spin
top spot
top the
top timber
top up
top yeast
top-
top-armor
top-boot
top-cap
top-castle
top-coated
top-cross
top-cutter
top-dog
top-drain
top-drawer
top-dress
top-dressing
top-flight
top-full
top-graft
top-hamper
top-hampered
top-hand
top-hat
top-hatted
top-heavily
top-heaviness
top-heavy
top-heavy market
top-hole
top-level
top-lit
top-notch
top-over-tail
top-piece
top-rank
top-ranking
top-road bridge
top-sawyer
top-secret
top-set
top-sew
top-shaped
top-shell
top-stone
top-timber
top-work
topaz quartz
topaz rock
topaz-colored
topaz-green
topaz-tailed
topaz-throated
topaz-tinted
topaz-yellow
toper's-plant
topgallant mast
topgallant sail
topgallant yard
tophus stone
torch song
torch staff
torch thistle
torch tree
torch-bearer
torch-fish
torch-light
torch-tree family
torch-wood
torchon board
torchon lace
torchon paper
torchwood family
toreador pants
toric lens
toringo crab apple
torrent of Tantalus
tormentor wing
torn-down
tomato belt
tornado cellar
tornado cloud
tornado insurance
tornado lamp
tornado lantern
tornado-breeding
tornado-haunted
tornado-swept
toro bravo
tororo-konbu
tororo-kubu
torpedo battery
torpedo boat
torpedo body
torpedo bomber
torpedo boom
torpedo catcher
torpedo director
torpedo fish
torpedo mine
torpedo net
torpedo ram
torpedo rocket
torpedo room
torpedo sand
torpedo school
torpedo spar
torpedo station
torpedo stern
torpedo strike aircraft
torpedo tube
torpedo-boat
torpedo-boat catcher
torpedo-boat destroyer
torpedo-shaped
torque arm
torque converter
torque tube
torque wrench
torrent bow
torrent duck
torrent of rain
torrent-bitten
torrent-borne
torrent-braving
torrent-flooded
torrent-mad
torrent-swept
torrid heat
torrid zone
torsion angle
torsion axis
torsion balance
torsion bar
torsion basin
torsion curve
torsion galvanometer
torsion group
torsion head
torsion meter
torsion pendulum
torsion scale
torsion screw
torsion spasm
torsion spring
torsion-free group
torsional stress
torso murder
tort-feasor
tortoise beetle
tortoise flower
tortoise plant
tortoise shell
tortoise that supports the earth
tortoise's pace
tortoise-core
tortoise-footed
tortoise-headed
tortoise-paced
tortoise-rimmed
tortoise-roofed
tortoise-shaped
tortoise-shell
tortoise-shell butterfly
tortoise-shell cat
tortoise-shell turtle
tortoise-shell turtle
tortoise-roofed

torture the law to your own ends
torus palatinus
tory democracy
tory-rory
tosh nailing
tosh-up
toss and tumble
toss and turn
toss around
toss at
toss down
toss off
toss out
toss overboard
toss the head
toss together
toss up
toss your cookies
toss your drink
toss your hat in the ring
toss-up
tossed salad
tossing and turning
tossing-in
tot system
tot to
tot up
tot up to
total abstinence
total agreement
total approach
total attention
total bases
total blindness
total change
total commitment
total compensation
total darkness
total defeat
total depravity
total differential
total eclipse
total effect
total environment
total heat
total immersion
total impression
total impulse
total internal reflection
total loss
total loss only policy
total memory
total quantum number
total recall
total reflection
total self-assurance
total serialism
total situation
total skepticism
total theater
total up
total up to
total utility
total victory
total war
totalitarian government
totalitarian regime
totalitarian threat
totality of associations
totality of being
totality of references
totality of relations
totally absorbed
totally committed
totally ordered set
totally self-assured
tote bag
tote board
tote box
tote road
tote sack
tote shop
tote to
tote up
tote up to
totem animal
totem badge
totem kin
totem pole
toti-
totidem verbis
toties quotes
toto caelo
toto-
totter along
totter on the brink
totter to your fall
tottery in years	
totty-headed
touch a chord
touch a nerve
touch a nerve ending
touch a raw nerve
touch a soft spot
touch a sore spot
touch a sympathetic chord
touch a tender spot
touch and go
touch body
touch bottom
touch cerate
touch down
touch elbows with
touch football
touch judge
touch lightly
touch mark
touch method
touch needle
touch of conscience
touch off
touch on
touch on the raw
touch paper
touch reader
touch shoulders with
touch spot
touch system
touch the cap
touch the hat
touch the wind
touch to the quick
touch typewriter
tough-fisted
tough-handed
tough-lived
tough-looking
tough-metaled
tough-minded
tough-mindedly
tough-mindedness
tough-muscled
tough-shelled
tough-sinewed
tough-skinned
tough-thonged
toujours perdrix
tour billion
tour conductor
tour de force
tour director
tour en l'air
tour guide
tour jete
tour of duty
toura grass
touring car
touring coupe
tourist car
tourist card
tourist center
tourist class
tourist court
tourist home
tourist trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trodden
tourmaline pink
tourmaline tongs
tours en l'air
tous-les-mois
tousled hair	out a fait	out a l'heure	out au contraire	out court	out de suite
tower of strength
tower over
tower owl
tower pound
tower projector
tower shell
tower stamp
tower telescope
tower wagon
tower window
tower-bearing
tower-capped
tower-crested
tower-crowned
tower-dwelling
tower-encircled
tower-flanked
tower-high
tower-mill
tower-razi ng
tower-shaped
tower-studded
tower-supported
tower-tearing
towering alps
towering heights
towering passion
towering rage
towing basin
towing bridle
towing lights
towing net
towing path
towing post
towing spar	
town adjutant
town ball
town book
town boomer
town bridge
town bushel
town car
town church
town clerk
town clerkship
town council
town councilor
town cress
town crier
town dweller
town economy
town end
town foot
town forest
town gas
town guard
town hall
town head
town house
town jail
town life
town lot
town manager
town meeting
town mouse
town mutual
town officer
town park
town people
town place
town plan
town planner
town planning
town reeve
town row
town sickness
town soviet
town talk
town tallow
town top
town traveler
town wall
town way
town woman
town yard
town-absorbing
town-and-country suit
town-born
town-bound
town-bred
town-clerk
town-cress
town-dotted
town-dwelling
town-end
town-flanked
town-frequenting
town-girdled
town-goer
town-going
town-house
town-imprisoned
town-keeping
town-killed
town-living
town-looking
town-loving
town-made
town-major
town-meeting
town-pent
town-planning
town-sick
town-talk
town-tied
town-trained
town-weary
townhall clock
township line
township road
towrope horsepower
tox-
toxic goiter
toxic inflammation
toxic psychosis
toxic shock syndrome
toxic-
toxico-
toxin-anatoxin
toxin-antitoxin
toxin-antitoxin immunity
toxin-antitoxin immunization
toxo-
toxophore group
toy dog
toy manchester
toy poodle
toy shop
toy soldier
toy spaniel
toy terrier
toy with
toy-loving
toy-shop
toy-sized
tr-ties
tra-la
tra-la-la
trace buckle
trace chain
trace connector
trace down
trace element
trace fastener
trace holder
trace hook
trace horse
trace of an idea
trace out
trace over
trace spring
trace the derivation of
trace the origin of
trace to
trace-bearing
trace-galled
trace-high
tracer atom
tracer bullet
tracer element
tracer investigation
tracheo-
trachelo-
trachelo-occipital
trachio-
trachio branchia
trachy-
tracing braid
tracing cloth
tracing paper
tracing thread
tracing wheel
track and field
track boat
track bolt
track brake
track chisel
track cleaner
track clip
track down
track drill
track edge
track gauge
track guard
track harness
track indicator
track inspector
track instrument
track jack
track level
track leveler
track lifter
track liner
track map
track mark
track meet
track of
track oven
track punch
track race
track record
track road
track rod
track roller
track scale
track shim
track shoe
track shot
track spike
track sports
track sprocket
track suit
track switch
track tank
track tool
track wrench
track-track-and-field
track-clearing
track-laying
track-mile
track-walking
tracked vehicle
tracker action
tracker bar
tracker-action organ
tracking down
tracking shot
tracking station
trackless trolley
tract index
tract of time
traction engine
traction fiber
traction sprayer
traction wheel
traction-engine
tractive effort
tractive power
tractor airplane
tractor airscrew
tractor plane
tractor propeller
tractor trailer
tractor truck
tractor-trailer
trade acceptance
trade agreement
trade allowance
trade association
trade at
trade balance
trade board
trade book
trade center
trade club
trade coin
trade commissioner
trade council
trade cumulus
trade cycle
trade discount
trade dollar
trade ducat
trade edition
trade editor
trade eruption
trade fair
trade fixture
trade gap
trade goods
trade guild
trade hall
trade in
trade journal
trade language
trade magazine
trade name
trade off
trade officer
trade on
trade on margin
trade paper
trade plate
trade practice
trade price
trade rat
trade reference
trade rights
trade road
trade route
trade sale
trade school
trade secret
trade sight unseen
trade test
trade tomahawk
trade union
trade unionism
trade unionist
trade up
trade warranty
trade wind
trade winds
trade with
trade work
trade-bound
trade-destroying
trade-facilitating
trade-fallen
trade-gild
trade-in
trade-laden
trade-last
trade-made
trade-mark
trade-mark infringement
trade-mark name
trade-marker
trade-off
trade-seeking
trade-union
trade-unionism
trade-unionist
trade-wind
trade-wind rig
traffic tower
traffic warden
traffic with
traffic-bearing
traffic-choked
traffic-congested
traffic-furrowed
traffic-laden
traffic-mile
traffic-regulating
traffic-thronged
tragedy-proof
tragi-
tragi-comedy
tragi-comic
tragic drama
tragic flaw
tragic irony
tragic muse
tragic-comedy
trail after
trail along
trail angle
trail arms
trail away
trail bar
trail behind
trail bike
trail blazer
trail blazing
trail board
trail boss
trail breaker
trail bridge
trail car
trail cart
trail ferry
trail handspike
trail herd
trail net
trail of
trail plank
trail plate
trail rope
trail sight
trail spade
trail spur
trail-eye
train staff
train starter
train stop
train tackle
train ticket
train trip
train upon
train wrecker
train-dispatching
train-giddy
train-lighting
train-mile
trained nurse
trainer-bomber
trainer-fighter
training aid
training bank
training college
training day
training group
training level
training missile
training mission
training pants
training rocket
training school
training ship
training table
training tackle
training wall
trait of character
trait-complex
trajectory missile
tram crane
tram greaser
tram guard
tram load
tram plate
tram rail
tram rod
tram shed
tram-borne
tram-car
tram-line
tram-road
tram-traveling
trammel net
trammel wheel
trammel-net
tramp pick
tramp ship
tramp steamer
trample down
trample in the dust
trample on
trample out
trample under foot
trample underfoot
trample upon
trampling down
trance speaking
trance state
trance writing
tranche de bouf
tranche de lard
tranche de vie
tranquil-acting
tranquil-ization
tranquil-looking
tranquil-minded
trans-
trans-Adriatic
trans-African
trans-Algerian
trans-Alleghenian
trans-American
trans-Andean
trans-Andine
trans-Antarctic
trans-Apennine
trans-Arabian
trans-Asiatic
trans-Australian
trans-Austrian
trans-Balkan
trans-Baltic
trans-Canadian
trans-Carpathian
trans-Caspian
trans-Congo
trans-Cordilleran
trans-Danubian
trans-Egyptian
trans-Euphrates
trans-Germanic
trans-Grampian
trans-Himalayan
trans-Hispanic
trans-Iberian
trans-Indian
trans-Indus
trans-Iranian
trans-Iraq
trans-Jovian
trans-Libyan
trans-Manchurian
trans-Martian
trans-Mediterranean
trans-Mississippi
trans-Mississippian
trans-Mongolian
trans-Neptunian
trans-Niger
trans-Panamanian
trans-Paraguayan
trans-Persian
trans-Pyreanean
trans-Rhenish
trans-Sahara
trans-Saharan
trans-Saturnian
trans-Severn
trans-Siberian
trans-Stygian
trans-Tiber
trans-Tibetian
trans-Ural
trans-Uralian
trans-Volga
trans-border
trans-continental
trans-etherian
trans-frontier
trans-oceanic
trans-pacific
trans-shape
trans-shift
trans-sonic
trans-subjective
transact business
transact business with
transactional analysis
transcendent essence
transcendent idea
transcendent universal
transcendent wonder
transcendental aesthetic
transcendental analytic
transcendental dialectic
transcendental idealism
transcendental logic
transcendental meditation
transcendental number
transcendental object
transcendental philosophy
transcription turntable
transfer RNA
transfer agent
transfer book
transfer box
transfer caliper
transfer case
transfer company
transfer conductance
transfer day
transfer fee
transfer ink
transfer list
transfer of property
transfer of right
transfer of training
transfer paper
transfer payment
transfer picture
transfer printing
transfer property
transfer resistance
transfer right
transfer stamp
transfer table
transferable vote
transference neurosis
transference number
transferred meaning
transferred sense
transferring machine
transfinite cardinal
transfinite number
transfinite ordinal
transformation myth
transformation range
transformation rule
transformation scene
transformation temperature
transformational grammar
transformational linguistics
transformational rule
transformer oil
transfuse the sense of
transfusion cell
transfusion tissue
transient boarder
transient cause
transient guest
transient lodging
transient state
transistor circuit
transistor hearing aid
transistor physics
transistor radio
transit camp
transit certificate
transit circle
transit compass
transit department
transit duty
transit floater
transit instrument
transit pass
transit prism
transit privileges
transit rot
transit station
transit theodolite
transit time
transition curve
transition element
transition fit
transition form
transition mission
transition point
transition probability
transition sound
transition strip
transition temperature
transition tint
transitive verb
transitive visit number
transitory action
transverse wave
trap bat
trap bat and ball
trap brilliant
trap bushing
trap car
trap clamp
trap cleaner
trap cover
trap crop
trap cut
trap door
trap driver
trap drummer
trap fisher
trap hatch
trap lever
trap line
trap match
trap nest
trap net
trap on the ropes
trap play
trap screw
trap shot
trap stair
trap tree
trap tuff
trap vent
trap weir
trap window
trap-ball
trap-cut
trap-door
trap-door spider
trap-nester
trapeze artist
trapeze dress
trapezoid ligament
trapezoidal rule
trash bag
trash barrel
trash can
trash farming
trash gatherer
trash ice
trash pile
trash shield
trash turner
traumatic epilepsy
traumatic fever
traumatic inflammation
traumatic memory
traumatic neurosis
traumatic shock
traumatic trace
traumato-
travail and bring forth
travel agency
travel agent
travel book
travel bureau
travel by air
travel by airline
travel by water
travel in a groove
travel in a rut
travel in space
travel literature
travel over
travel ration
travel shot
travel sickness
travel the open road
travel through
travel time
travel with
travel-bent
travel-broken
travel-changed
travel-disordered
travel-enjoying
travel-famous
travel-formed
travel-gifted
travel-infected
travel-jaded
travel-loving
travel-mad
travel-met
travel-opposing
travel-parted
travel-planning
travel-sated
travel-sick
travel-soiled
travel-spent
travel-stained
travel-tainted
travel-tattered
travel-tired
travel-toiled
travel-weary
travel-worn
traveler crane
traveler iron
traveler's check
traveler's-joy
traveler's-tree
traveling agent
traveling bag
traveling block
traveling carriage
traveling case
traveling clock
traveling crab
taveling derrick
traveling elevator
traveling examiner
traveling fellowship
traveling grate
traveling hoist
traveling inspector
traveling man
traveling salesman
traveling tinker
traveling trunk
traveling woman
traveling-head shaper
traveling-wave tube
traveller's cheque
traveller's joy
travelling salesman
travelling wave
traverse a yard
traverse board
traverse circle
traverse drill
traverse feed
traverse flute
traverse jury
traverse rail
traverse rod
traverse sailing
traverse shaper
traverse survey
traverse table
traverse track
traverse wind
traverse-table	
traversing bridge
traversing circle
traversing crane
traversing gear
traversing jack
traversing mandrel
travois road
trawl board
trawl line
trawl net
trawl-net
tray agriculture
tray boy
tray cloth
tray conveyer
tray elevator
tray emptier
tray filler
tray frame
tray handle
tray maker
tray table
tray-shaped
tray-top table
treacle mold
treacle molding
treacle mustard
treacle sleep
treacle water
treacle wormseed
tread close upon
tread down
tread on
tread on air
tread on eggs
tread on the heels of
tread on your heels
tread on your toes
tread the boards
tread under foot
tread underfoot
tread upon
tread upon eggs
tread water
tread-softly
tread-wheel
treading down
treading mill
treading water	
treads and risers
treason felony
treason-breeding
treason-canting
treason-hatching
treason-haunted
treason-sowing
treasure box
treasure chamber
treasure chest
treasure city
treasure house
treasure hunt
treasure hunter
treasure hunting
treasure quest
treasure room
treasure seeker
treasure ship
treasure trove
treasure up
treasure up in the heart
treasure up in the memory	
treasure-baited
treasure-bearing
treasure-filled
treasure-house
treasure-houses
treasure-laden
treasure-seeking
treasure-trove
treasurer general
treasury agent
treasury bench
treasury bill
treasury bond
treasury certificate
treasury check
treasury letter
treasury note
treasury of information
treasury of merits
treasury of the Church
treasury of words
treasury stock
treasury warrant	
treat as routine
treat for sore eyes
treat gently

treat lightly
treat like dirt under your feet
treat of
treat to
treat unequally
treat well
treat with
treat with contempt
treat with disrespect
treat with indignity
treat with reserve
treatment room
treaty maker
treaty making
treaty of peace
treaty port
treaty reinsurance
treaty-bound
treaty-breaking
treaty-favoring
treaty-sealed
treaty-secured
treble best
treble block
treble bob
treble chance
treble clef
treble gear
treble purchase
treble staff
treble viol
treble-dated
treble-gear ed	
treble-sinewed
tree agate
tree aloe
tree azalea
tree bear
tree belt
tree boa
tree bracket
tree cactus
tree calf
tree cat
tree celandine
tree class
tree cobra
tree compass
tree cony
tree cotton
tree crab
tree creeper
tree cricket
tree crow
tree cult
tree cypress
tree dassie
tree dove
tree duck
tree farm
tree farmer
tree farming
tree feller
tree fender
tree fern
tree frog
tree fruit
tree fuchsia
tree germander
tree goldenrod
tree goose
tree guard
tree heath
tree holder
tree hoopoe
tree hopper
tree house
tree houseleek
tree huckleberry
tree hyrax
tree insulator
tree ipomoea
tree kangaroo
tree lark
tree lawn
tree lily
tree line
tree stool
tree sugar
tree surgeon
tree surgery
tree swallow
tree swift
tree tag
tree tiger
tree toad
tree tobacco
tree tomato
tree trimmer
tree trunk
tree veld
tree violet
tree viper
tree wax
tree wool
tree wormwood
tree worship
tree worshiper
tree yucca
tree-banding
tree-bordered
tree-boring
tree-clad
tree-climbing
tree-covered
tree-creeper
tree-crowned
tree-dotted
tree-dwelling
tree-embowered
tree-feeding
tree-fern
tree-form frame
tree-fringed
tree-garnished
tree-girt
tree-god
tree-goddess
tree-goose
tree-great
tree-haunting
tree-hewing
tree-inhabiting
tree-lined
tree-living
tree-locked
tree-loving
tree-marked
tree-moss
tree-planted
tree-pruning
tree-ripe
tree-run
tree-runner
tree-sawing
tree-shaded
tree-shaped
tree-skirted
tree-sparrow
tree-spraying
tree-surgeon
tree-toad
tree-top
trefled cross
trefoil arch
trefoil knot
trefoil-shaped
trek ox
trek wagon
trellis-bordered
trellis-covered
trellis-framed
trellis-shaded
trellis-sheltered
trellis-work
trellis-woven	
tremble in the balance	
tremble in your boots	
tremble in your shoes	
tremble like an aspen leaf	
tremble on the verge	
tremble to its fall	
tremble to your fall	
trembleuse cup	
trembling in the balance	
trembling poplar	
trembling prairie	
tremor disk	
tremor of excitement	
trench albuminuria	
trench artillery	
trench back	
trench bomb
trial order
trial package
trial piece
trial print
trial proof
trial run
trial sample
trial square
trial trip
trial-and-error
trials and tribulations
triammonium phosphate
triangle inequality
triangle of forces
triangle spider
triangle winding
triangle-leaved
triangle-shaped
triangular bandage
triangular matrix
triangular-shaped
triangulation stations
triangulato-ovate
triaryl methane dye
triatic stay
triaxial cable
triaxial speaker
tribasic sodium phosphate
tribo-
tribrom-
tribromoethyl alcohol
tribute money
tribute pitch
tric-trac
trice up
triceps surae
trich-
trichlor-
trichloroacetic acid
trichloroacetic acid aldeh
trichloroacetic acid aldehyde
trichloromethyl chloroformate
trichlorophenoxyacetic acid
trichlorophenoxyacetic acid
tricho-
trick knee
trick of behavior
trick of eyesight
trick off
trick or treat
trick out
trick rider
trick score
trick up
trick valve
trick wheel
trick work
trick-o-the-loop
trick-or-treat
trick-or-treater
tricked out
trickle away
trickle charge
trickle charger
trickle-down theory
tricks of the trade
tricky spot
tricolor camera
tricot stitch
tricuspid insufficiency
tricuspid stenosis
tricuspid valve
tricyanic acid
tridarn cupboard
trident bat
trident-shaped
tridymite-trachyte
tried and true
tried-and-trueness
triethyl orthoformate
trifacial neuralgia
trifid foot
trifle away
trifle away time
trifle with
trifle with the truth
trifles light as air
trifling amount
trifling matter
trifoliate orange
trig loop
trig up
trigeminal nerve
trigeminal neuralgia
trigesimo-secundo
trigger a mine
trigger circuit
trigger finger
trigger guard
trigger hair
trigger man
trigger mechanism
trigger plant
trigger pulse
trigger tube
trigger-happy
trigger-men
triggering pulse
triggering signals
trigonal trisoctahedron
trigono-
trigonometric equation
trigonometric function
trihydric alcohol
trilateral symmetry
trilby hat
trillium family
trim angle
trim by the head
trim by the stern
trim controls
trim rail
trim sail
trim ship
trim size
trim tab
trim tabs
trim to
trim up
trim your sails to the breeze
trim-ankled
trim-bearded
trim-bodiced
trim-bodied
trim-cut
trim-dressed
trim-hedged
trim-kept
trim-looking
trim-suited
trim-swept
trim-up
trim-waisted
trimetric projection
trimmer arch
trimmer beam
trimmer condenser
trimmer joist
trimmer signal
trimming capacitor
trimming hatch
trimming hole
trimming joist
trimming machine
trimming press
trimming punch
trimming store
trimming tab
trimming tank
trine immersion
trinity column
trinity field
trinity lily
trinity violet
trinkum-trankum
trinomial name
trio sonata
triode-heptode
trip catch
trip charter party
trip dial
trip die
trip dog
trip engine
trip gear
trip hammer
trip hook
trip line
trip money
trip over your own feet
trip over your tongue
trip piece
trip pin
trip rate
trip shaft
trip slip
trip system
trip the light fantastic
trip to Mars
trip to the moon
trip train
trip up
trip-free
trip-hammer
trip-madam
trip-toe
tripartite and pretty
tripe de roche
tripe dresser
tripe seller
tripe-de-roche
tripe-eating
tripe-selling
triphenylmethane color
triphenylmethane dye
triphosphoric acid
triple bond
triple counterpoint
triple crown
triple dresser
triple fugue
triple integral
triple jump
triple measure
triple play
triple plume
triple point
triple rhyme
triple rhythm
triple scalar product
triple superphosphate
triple tangent
triple tangent plane
triple threat
triple time
triple vaccine
triple-acting
triple-action
triple-aisled
triple-apsidal
triple-arched
triple-awned
triple-barbed
triple-barred
triple-bearded
triple-bodied
triple-bolted
triple-branched
triple-check
triple-chorded
triple-colored
triple-crested
triple-crowned
triple-cylinder
triple-deck
triple-decked
triple-decker
triple-dyed
triple-edged
triple-entry
triple-expansion
triple-expansion engine
triple-formed
triple-gemmed
triple-hatted
triple-headed
triple-header
triple-hearth
triple-ingrain
triple-line
triple-lived
triple-lock
triple-nerved
triple-piled
triple-pole
triple-rayed
triple-ribbed
triple-rivet
triple-roofed
triple-space
triple-stranded
triple-tailed
triple-terraced
triple-thread
triple-throated
triple-throw
triple-tiered
triple-tongue
triple-tongued
triple-tonguing
triple-toothed
triple-towered
triple-turned
triple-turreted
triple-veined
triple-wick
triplet lily
triplicate-pinnate
triPLICATE-TERNATE
triplo-
tripod camera
tripod of the Pythia
tripod puller
tripod table
tripped out
tripped up
tripping coil
tripping line
tripping link
tripping relay
tripping transformer
trippingly on the tongue
trismus cynicus
trisodium phosphate
tristimulus computer
tristimulus values
trit-trot
trite expression
trite joke
trite saying
trito-
triumph over
triumphal arch
trivalent carbon
trivet table
trivial affair
trivial name
trobar clus
trocar-shaped
trochlear nerve
trocho-
trodden flat	
trotlus butterfly
trois point
trojan horse
trojan war
troll plate	
troll-drum
troll-madam	
trolley attendant
trolley block
trolley bracket
trolley bus
trolley car
trolley carrier
trophic level
troho-
trophy cress
trophy money
trophy room
trophy tax
tropic bird
tropic of
tropic of Cancer
tropic of cancer	
tropical aquarium
tropical bubo
tropical cycl
tropical cyclone
tropical fish
tropical heat
tropical medicine
tropical storm
tropical suit
tropical year
tropo-
trot along
trot out
troth ring
troth-contracted
troth-keeping
troth-plight
troth-telling	
trotter cases
trotting race
trou madame
trou-de-coup
trou-de-loup	
troubadour fiddle
troubadour poem	
trouble maker
trouble man
trouble shooter
trouble shooting
trouble spot
trouble you for
trouble your head about
trouble yourself
trouble-bringing
trouble-free
trouble-giving
trouble-haunted
trouble-house
true to form
true to life
true to nature
true to reality
true to the facts
true to the letter
true to the spirit
true to type
true to your colors
true up
true vocal cord
true vocal cords
true-aimed
true-based
true-begotten
true-believing
true-blooded
true-blue
true-born
true-breasted
true-bred
true-dealing
true-derived
true-devoted
true-disposing
true-divining
true-eyed
true-false
true-false test
true-felt
true-grained
true-hearted
true-heartedness
true-heroic
true-life
true-love
true-love knot
true-lover's knot
true-made
true-mannered
true-meaning
true-meant
true-noble
true-paced
true-ringing
true-run
true-seeming
true-souled
true-speaking
true-spelling
true-spirited
true-spoken
true-stamped
true-strung
true-sublime
true-sweet
true-thought
true-to-lifeness
true-toned
true-tongued
true-love knot
true and solemn heraldry
true card
true of doom
true signal
true up
true up a charge
true-poor
trueked-up
trueked-up charge
trueked-up story
truepet animalcule
truepet arch
truepet ash
truepet blare
truepet blast
truepet call
truepet conch
truepet creeper
truepet daffodil
truepet fish
truepet flower
truepet fly
truepet forth
truepet honey suckle
truepet honeysuckle
truepet hypha
truepet lily
truepet major
truepet marine
truepet milkweed
truepet narcissus
truepet of doom
truepet plant
truepet reed
truepet seaweed
trumpet shell
trumpet sound
trumpet tree
trumpet turning
trumpet vine
trumpet-blowing
trumpet-creeper family
trumpet-hung
trumpet-leaf
trumpet-leaves
trumpet-loud
trumpet-shaped
trumpet-toned
trumpet-tongued
trumpet-tree
trumpeter-voiced
trumpeter fish
trumpeter muscle
trumpeter perch
trumpeter swan
trumpeter whiting
truncated pyramid
trundle bed
trundle-bed
trundle-tail
trunk breeches
trunk buoy
trunk cabin
trunk call
trunk curl
trunk deck
trunk dial
trunk engine
trunk hatch
trunk hatchway
trunk hose
trunk line
trunk piston
trunk road
trunk room
trunk scald
trunk steamer
trunk turtle
trunk whale
trunk-breeches
trunk-decked vessel
trunk-fish
trunk-hose
trunk-maker
trunnion band
trunnion carriage
trunnion chain
trunnion cradle
trunnion hoop
trunnion jig
trunnion plate
truss beam
truss bow
truss bridge
truss hoop
truss rod
truss up
truss-bound
truss-galled
truss-hoop
trussed beam
trussed joist
trussing bed
trussing machine
trust account
trust agreement
trust beneficiary
trust buster
trust busting
trust certificate
trust company
trust corporation
trust deed
trust fund
trust implicitly
trust in
trust in God
trust indenture
trust institution
trust maker
trust mortgage
trust officer
trust receipt
trust territory
trust to
trust to chance
trust to luck
trust unto
trust upon
trust your word
trust-bolstering
trust-breaking
trust-controlled
trust-controlling
trust-ingly
trust-regulating
trust-ridden
trust-winning
trusted friend
trustee account
trustee bank
trustee in bankruptcy
trustee mortgage bond
trustee process
trustee savings bank
trustee security
trustee stock
trusting soul
trusty friend
trusty sword
truth claim
truth drug
truth in action
truth lover
truth or consequences
truth seeker
truth serum
truth set
truth speaker
truth table
truth to life
truth to nature
truth to the letter
truth-armed
truth-bearing
truth-cloaking
truth-cowed
truth-declaring
truth-denying
truth-desiring
truth-destroying
truth-dictated
truth-filled
truth-function
truth-functional
truth-functionally
truth-guarding
truth-instructed
truth-led
truth-loving
truth-mocking
truth-passing
truth-perplexing
truth-revealing
truth-seeking
truth-shod
truth-speaking
truth-telling
truth-tried
truth-value
truth-writ
try a case
try again
try and
try and make me
try and try
try and try again
try anything once
try cock
try conclusions
try conclusions with
try for
try for a miracle
try for point
try gun
try hard
try hole
try in all its phases
try it
try it for size
try it on
try on
try on for size
try one
try one another
try out
try out for
try plane
try square
try the chance
try the patience
try to
try to be in two places at once
try to bribe
try to catch the wind in a net
try to fetch water in a net
try to find
try to gather grapes from thorns
try to get blood from a turnip
try to get figs from thistles
try to make bricks from straw
try to make cheese of chalk
try to reach
try to recall
try to weave a rope of sand
try up
try you out
try your best
try your damndest
try your darndest
try your fortune
try your hand
try your luck
try your strength
try your utmost
try-
try-on
try-pot
tryer-out
trying for
trying plane
trypaflavine neut
trypan blue
trypan red
trysail gaff
trysail mast
trysting day
trysting place
tssethem leshalom
tsete fly
tsetse fly disease
tsutsugamushi disease
tsutsugamushi mite
tu quoque
tu-chung
tu-chung bark
tu-whit
tu-whit tu-whoo
tu-whoo
tuan muda	ub boat	ub butter	ub chair	ub desk	ub drubber
tub front
tub maker
tub of lard
tub preacher
tub preaching
tub thumper
tub thumping
tub wheel
tub-brained
tub-coopering
tub-fast
tub-keeping
tub-preach
tub-preacher
tub-shaped
tub-size
tub-sized
tub-t
tub-thump
tub-thumper
tubal pregnancy
tube brazer
tube casts
tube coral
tube counter
tube culture
tube door
tube drawer
tube foot
tube generator
tube mill
tube of electric force
tube of force
tube plate
tube railway
tube saw
tube set
tube sheet
tube shutter
tube spinner
tube transmitter
tube weaver
tube well
tube worm
tube wrench
tube-bearing
tube-curing
tube-drawing
tube-drilling
tube-eye
tube-eyed
tube-eyes
tube-fed
tube-filling
tube-nosed
tube-rolling
tube-scrapping
tube-shaped
tube-straightening
tube-weaving
tubeless tire
tubeless tyre
tuber aster
tuber fern
tuber indexing
tuber moth
tuber root
tubercle bacillus
tubercul-
tuberculin test
tubercul-
tuberculosis cutis
tuberculosis luposa
tuberculosis of the intestines
tuberculosis of the larynx
tuberculous arthritis
tuberculous meningitis
tuberculous rheumatism
tuberous root
tuberous-rooted	ubi-
tubo-
tubo-uterine	ubular bells	ubular floret	ubular girder	ubular goods	ubular skate	ubular-flowered	ubular-pneumatic organ	ubuli-
tuck away	tuck box	tuck in	tuck in a reef	tuck net
tuck plate
tuck pointer
tuck pointing
tuck seine
tuck shop
tuck your tail
tuck-in
tuck-net
tuck-out
tuck-point
tuck-pointed
tuck-pointer
tuck-shop
tuckaway table	
tucked up
tucker bag
tucker out
tucker-bag
tucker-box
tucker-in
tuckered out
tucky lily
tuco tuco
tuco-tuco
tuco-tucos	
tucu tucu
tudor arch	
tuft tree
tuft-hunter
tufted duck
tufted hair grass
tufted titmouse
tufted-eared
tufted-necked
tug at the heart	
tug at the heartstrings
tug chain
tug iron
tug of war
tug the heartstrings
tug-of-war
tug-of-warring	
tula metal
tule chicken
tule goose
tule hen
tule mint
tule perch
tule potato
tule root
tule wren
tulema arrow-root
tulip bed
tulip blight
tulip ear
tulip fancier
tulip fire
tulip grower
tulip mold
tulip oak
tulip orchid
tulip poplar
tulip poppy
tulip root
tulip shell
tulip tree
tulip-eared
tulip-fancying
tulip-grass
tulip-growing
tulip-shaped
tulip-tree
tulip-wood
tum out
tum-ti-tum
tum-tum	umble car	umble cart	umble drier	umble for	umble grass	umble home	umble mustard	umble on	umble through the mind	umble to	umble-
tumble-down	umbledown shack	umbler bearing	umbler cart	umbler cup	umbler drier	umbler gear	umbler gearing	umbler pigeon
tumbler switch
tumbler-shaped
tumbling barrel
tumbling bay
tumbling box
tumbling rod
tumbling shaft
tumbling verse
tumbling-
tumbu fly
tump-line
tumulus scab
tun of flesh
tun pail
tun shell
tun-bellied
tun-dish	
tuna cheese
tuna clipper
tuna fish
tuna fish salad
tuna oil
tuna salad sandwich
tune down
tune in
tune off
tune out
tune up
tune your lyre
tune-skilled
tune-up
tuned antenna
tuneful Nine
tuner-inner
tung oil
tung tree
tung-oil
tung-oil tree
tungst-
tungsten lamp
tungsten ocher
tungsten steel
tungsten trioxide
tungstic acid	
tunic flower	
tunica palmata
tuning bar
tuning capacitor
tuning coil
tuning condenser
tuning cone
tuning fork
tuning hammer
tuning hole
tuning horn
tuning key
tuning lever
tuning peg
tuning pin
tuning pipe
tuning slide
tuning wrench
tunking fit
tunna smjors
tunnel anemia
tunnel diode
tunnel disease
tunnel effect
tunnel head
tunnel kiln
tunnel miner
tunnel net
tunnel of love
tunnel of time
tunnel pit
tunnel right
tunnel shaft
tunnel sickness
tunnel stern
tunnel vault
tunnel vision
tunnel weaver
tunnel worm
tunnel-boring
tunnel-shaped	unny oil
tuno gum
tup lamb
tup-headed
tupelo gum	upi-guarani	upi-guaranian	uppenny-hapenny
turban buttercup
turban lily
turban sheep
turban squash
turban stone
turban toque
turban-crested
turban-crowned
turban-shaped
turbary hog
turbidity current
turbine centrifugal pump
turbine interrupter
turbine nozzle
turbine steamer
turbine ventilator
turbine-driven
turbine-engined
turbine-propelled
turbo-
turbo-electric
turbo-prop
turbo-propeller engine
turbo-propeller plane
turbo-ram-jet engine
turbo-ramjet engine
turbojet engine
turbojet propulsion
turboprop engine
turboprop-jet
turboprop-jet engine
turbojent

turbulent flow

turco-
turf accountant
turf ant
turf cake
turf hog
turf moss
turf out
turf webworm
turf-boring
turf-bound
turf-built
turf-clad
turf-covered
turf-cutting
turf-digging
turf-forming
turf-grown
turf-laid

turf-roofed

turf-spread

turf-walled

turfing daisy

turgor pressure

turk's cap

turk's head

turkey beard

turkey berry

turkey bird

turkey blossom

turkey bur

turkey buzzard

turkey call

turkey carpet

turkey claw

turkey cock

turkey corn

turkey fig

turkey foot

turkey gnat

turkey gobbler

turkey grape

turkey grass

turkey hen

turkey louse

turkey mullein

turkey oak

turkey pea

turkey pod

turkey red

turkey shoot

turkey stone

turkey trot

turkey vulture

turkey-cock

turkey-feather

turkey-feather fucus

turkey-foot

turkey-hen

turkey-trot

turkey-trotted

turkey-trotting

turkey-worked

turkish bath

turkish coffee

turkish delight
turkish tobacco
turkish towel
turmeric paper
turmeric root
turmeric tree
turn a blind eye
turn a blind eye to
turn a cold shoulder to
turn a cold shoulder upon
turn a corner
turn a deaf ear
turn a deaf ear to
turn a hair
turn a hand
turn a penny
turn a pirouette
turn a pot
turn a somersault
turn a willing ear
turn about
turn acid
turn against
turn an honest penny
turn and turn about
turn around
turn around your little finger
turn aside
turn aside from
turn aside provocation
turn ass over elbows
turn attention to
turn away
turn away from
turn awry
turn back
turn back the clock
turn bench
turn blue in the face
turn bolt
turn bottom side up
turn bridge
turn button
turn cloak
turn color
turn down
turn file
turn for
turn from
turn gray
turn green
turn head over heels
turn in
turn in an alarm
turn in your badge
turn in your uniform
turn indicator
turn informer
turn inside out
turn into
turn into money
turn into the opposite
turn inward
turn it off
turn king's evidence
turn loose
turn meter
turn of events
turn of expression
turn of mind
turn of phrase
turn of the cards
turn of the screw
turn of the table
turn of the tide
turn of the wheel
turn of thought
turn of work
turn off
turn off the juice
turn off the light
turn on
turn on a dime
turn on her heel
turn on the juice
turn on the light
turn on the offensive
turn on the tap
turn on to
turn on your heel
turn one's back on
turn one's back upon
turn out
turn out bag and baggage
turn out doors
turn out of doors
turn out of house and home
turn out that way
turn out to be
turn out well
turn over
turn over a new leaf
turn over in the mind
turn over the leaves
turn over your knees
turn pale
turn queen's
turn queen's evidence
turn red
turn round
turn sign
turn sour
turn state's evidence
turn stitch
turn swords into plowshares
turn tail
turn the back upon
turn the balance
turn the corner
turn the edge of
turn the eyes
turn the mind to
turn the other cheek
turn the point of
turn the scale
turn the scales
turn the shoulder
turn the stomach
turn the tables
turn the tables on
turn the tables upon
turn the thoughts to
turn the tide
turn the trick
turn thumbs down on
turn to
turn to a lake
turn to a sea
turn to account
turn to good account
turn to naught
turn to nothing
turn to profit
turn to stone
turn to the right-about
turn to the side
turn to use
turn to your advantage
turn topsy-turvy
turn traitor
turn turtle
turn under
turn up
turn up missing
turn up one's face
turn up trumps
turn up your nose at
turn up your toes
turn upon
turn upon your heel
turn upside down
turn west
turn white
turn yellow
turn you away
turn you on
turn your attention from
turn your back on
turn your back upon
turn your coat
turn your face to the wall
turn your hand to
turn your head
turn your stomach
turn your tail upon
turn your tracks to
turn-
turn-and-bank indicato
turn-and-bank indicator
turn-and-slip indicator
turn-buckle
turn-crowned
turn-down
turn-furrow
turn-hall
turn-in
turn-key
turn-key job
turn-out
turn-over
turn-penny
turn-round
turn-server
turnpike man
turnpike road
turntable ladder
tumup bed
tumup card
turpentine beetle
turpentine camphor
turpentine gum
turpentine moth
turpentine oil
turpentine orchard
turpentine pine
turpentine plant
turpentine shrub
turpentine substitute
turpentine sunflower
turpentine tree
turpeth mineral
turquoise blue
turquoise green
turquoise-blue
turquoise-colored
turquoise-encrusted
turquoise-hued
turquoise-studded
turquoise-tinted
turret angle-rack tool
turret captain
turret clock
turret crew
turret cutter
turret deck
turret drier
turret drill
turret gun
turret lathe
turret ship
turret slide tool
turret spider
turret steamer
turret taper tool
turret-deck vessel
turret-decked vessel
turret-shaped
turret-topped
turret-turning
turtle cowrie
turtle crawl
tuyere notch
tw-
twae-three	
twain cloud
twaite shad
twanging nerves
twattle-basket	
tweak the devil's nose
tweak the nose
tweed-clad
tweed-covered
tweed-suited
tweedle-
tween-brain
tween-deck
tween-watch	
tweet-tweet
tweeter-woofer	
tweezer-case
twelfhynde man
twelfth day
twelfth man
twelfth night
twelfth-cake
twelfth-day
twelfth-night
twelfth-second
twelve dozen
twelve men in a box
twelve o'clock
twelve-acre
twelve-armed
twelve-banded
twelve-bore
twelve-button
twelve-candle
twelve-carat
twelve-cut
twelve-day
twelve-dram
twelve-feet
twelve-foot
twelve-footed
twelve-fruited
twelve-gated
twelve-gauge
twelve-gemmed
twelve-handed
twelve-hole
twelve-horsepower
twelve-hour
twelve-inch
twelve-labor
twelve-legged
twelve-line
twelve-mile
twelve-mile limit
twelve-minute
twelve-monthly
twelve-note row
twelve-o'clock
twelve-oared
twelve-ounce
twelve-part
twelve-pint
twelve-point
twelve-point sphere
twelve-pound
twelve-pounder
twelve-rayed
twelve-seated
twelve-shilling
twelve-sided
twelve-spoke
twelve-spotted
twelve-starred
twelve-stone
twelve-stranded
twelve-thread
twelve-tone
twelve-tone row
twelve-tone technique
twelve-towered
twelve-verse
twelve-wired
twelve-word
twelve-year
twelve-year-old
twelvehynde man
twentieth man
twentieth-century
twenty questions
twenty-acre
twenty-carat
twenty-centimeter
twenty-cubit
twenty-day
twenty-dollar
twenty-dollar bill
twenty-dollar gold piece
twenty-eighth
twenty-eighth
twenty-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twenty-foot
twenty-four
twenty-four carat
twenty-four-hour
twenty-fourmo
twenty-fourmos
twenty-fourth
twenty-gauge
twenty-grain
twenty-gun
twenty-hour
twenty-inch
twenty-knot
twenty-line
twenty-man
twenty-mark
twenty-mesh
twenty-meter
twenty-mile
twenty-minute
twenty-nigger
twenty-nine
twenty-ninth
twenty-one
twenty-one point cassino
twenty-ounce
twenty-payment
twenty-penny
twenty-plume
twenty-pound
twenty-round
twenty-second
twenty-seven
twenty-seventh
twenty-shilling
twenty-six
twenty-sixth
twice-anticipated
twice-appealed
twice-appointed
twice-appropriated
twice-approved
twice-arbitrated
twice-arranged
twice-assaulted
twice-asserted
twice-assessed
twice-assigned
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorized
twice-avoided
twice-baked
twice-balanced
twice-bankrupt
twice-baptized
twice-barred
twice-bearing
twice-beaten
twice-begged
twice-begun
twice-beheld
twice-beloved
twice-bent
twice-bereaved
twice-bereft
twice-bestowed
twice-betrayed
twice-bid
twice-bit
twice-blamed
twice-blessed
twice-blooming
twice-blowing
twice-boiled
twice-born
twice-borrowed
twice-bought
twice-branded
twice-broken
twice-brought
twice-buried
twice-called
twice-cancelled
twice-canvassed
twice-captured
twice-carried
twice-caught
twice-censured
twice-challenged
twice-changed
twice-charged
twice-cheated
twice-chosen
twice-cited
twice-claimed
twice-collected
twice-commenced
twice-commended
twice-committed
twice-competing
twice-completed
twice-compromised
twice-concealed
twice-conceded
twice-condemned
twice-confessed
twice-confirmed
twice-conquered
twice-consenting
twice-considered
twice-consulted
twice-contested
twice-continued
twice-converted
twice-convicted
twice-copyrighted
twice-corrected
twice-counted
twice-cowed
twice-created
twice-crowned
twice-cured
twice-damaged
twice-dared
twice-darned
twice-dead
twice-dealt
twice-debated
twice-deceived
twice-declined
twice-decorated
twice-decreed
twice-deducted
twice-defaulting
twice-defeated
twice-deferred
twice-defied
twice-delayed
twice-delivered
twice-demanded
twice-denied
twice-depleted
twice-deserted
twice-deserved
twice-destroyed
twice-detained
twice-diminished
twice-dipped
twice-directed
twice-disabled
twice-disappointed
twice-discarded
twice-discharged
twice-discontinued
twice-discounted
twice-discovered
twice-disgraced
twice-dismissed
twice-dispatched
twice-divided
twice-divorced
twice-doubled
twice-doubted
twice-drafted
twice-drugged
twice-dyed
twice-earned
twice-effectuated
twice-elected
twice-enacted
twice-encountered
twice-endorsed
twice-engaged
twice-enlarged
twice-ennobled
twice-essayed
twice-evaded
twice-examined
twice-excelled
twice-excused
twice-exempted
twice-exiled
twice-exposed
twice-expressed
twice-extended
twice-fallen
twice-false
twice-favored
twice-felt
twice-filmed
twice-fined
twice-folded
twice-fooled
twice-forgiven
twice-forgotten
twice-forsaken
twice-fought
twice-foul
twice-fulfilled
twice-gained
twice-garbed
twice-given
twice-granted
twice-grieved
twice-guilty
twice-handicapped
twice-hazarded
twice-healed
twice-heard
twice-helped
twice-hidden
twice-hinted
twice-hit
twice-honored
twice-humbled
twice-hurt
twice-identified
twice-ignored
twice-imposed
twice-improved
twice-incensed
twice-increased
twice-numbered
twice-objected
twice-obligated
twice-occasioned
twice-occupied
twice-offended
twice-offered
twice-offset
twice-omitted
twice-opened
twice-opposed
twice-ordered
twice-originated
twice-orphaned
twice-overdue
twice-overtaken
twice-overthrown
twice-owned
twice-paid
twice-painted
twice-pardoned
twice-parted
twice-partitioned
twice-patched
twice-pensioned
twice-permitted
twice-persuaded
twice-perused
twice-petitioned
twice-pinnate
twice-placed
twice-planned
twice-pleased
twice-pledged
twice-poisoned
twice-pondered
twice-posed
twice-postponed
twice-praised
twice-predicted
twice-preferred
twice-prepaid
twice-prepared
twice-prescribed
twice-presented
twice-preserved
twice-pretended
twice-prevailing
twice-prevented
twice-printed
twice-procured
twice-professed
twice-prohibited
twice-promised
twice-promoted
twice-proposed
twice-prosecuted
twice-protected
twice-proven
twice-provided
twice-provoked
twice-published
twice-punished
twice-pursued
twice-qualified
twice-questioned
twice-quoted
twice-raided
twice-re-elected
twice-read
twice-realized
twice-rebuilt
twice-recognized
twice-reconciled
twice-reconsidered
twice-recovered
twice-redeemed
twice-refined
twice-reformed
twice-refused
twice-regained
twice-regretted
twice-rehearsed
twice-reimbursed
twice-reinstated
twice-rejected
twice-released
twice-relieved
twice-remedied
twice-remembered
twice-remitted
twice-removed
twice-rendered
twice-rented
twice-repaired
twice-repeated
twice-settled
twice-severed
twice-shamed
twice-shared
twice-shelled
twice-shelved
twice-shielded
twice-shot
twice-shown
twice-sick
twice-silenced
twice-sketched
twice-soiled
twice-soled
twice-solicited
twice-solved
twice-sought
twice-sounded
twice-spared
twice-specified
twice-sent
twice-sprung
twice-stabbed
twice-staged
twice-stated
twice-stolen
twice-stopped
twice-straightened
twice-stress
twice-stretched
twice-stricken
twice-struck
twice-subdued
twice-subjected
twice-subscribed
twice-substituted
twice-sued
twice-suffered
twice-sufficient
twice-suggested
twice-summoned
twice-suppressed
twice-surprised
twice-surrendered
twice-suspected
twice-suspended
twice-sustained
twice-sworn
twice-tabled
twice-taken
twice-tamed
twice-taped
twice-tardy
twice-taught
twice-tempted
twice-tendered
twice-terminated
twice-tested
twice-thanked
twice-thought
twice-threatened
twice-thrown
twice-tied
twice-told
twice-told tale
twice-torn
twice-touched
twice-trained
twice-transferred
twice-translated
twice-transported
twice-treated
twice-tricked
twice-tried
twice-trusted
twice-turned
twice-undertaken
twice-undone
twice-united
twice-unpaid
twice-upset
twice-used
twice-uttered
twice-vacant
twice-vamped
twice-varnished
twice-ventured
twice-verified
twice-vetoed
twice-victimized
twice-violated
twice-visited
twice-voted
twice-waged
twice-waived
twice-wanted
twice-warned
twice-wasted
twice-weaned
twice-welcomed
twice-whipped
twice-widowed
twice-wished
twice-withdrawn
twice-witnessed
twice-won
twice-worn
twice-wounded
twice-yielded
twiddle your thumbs
twiddle-twaddle
twiddling line	wig beetle
twig blight
twig borer
twig caterpillar
twig drop
twig gall
twig girdler
twig insect
twig pruner
twig rush
twig-formed
twig-green
twig-lined
twig-strewn
twig-suspended
twig-wrought	wilight arch	wilight blue	wilight home	wilight of the gods	wilight of your days	wilight parallel	wilight sleep	wilight state	wilight vision	wilight war	wilight zone	wilight-enfolded	wilight-hidden	wilight-hushed	wilight-loving
twilight-seeming
twilight-tinctured
twill weave
twill-woven	
twin band mill
twin bed
twin bill
twin boat
twin equatorial
twin mill
twin screws
twin ship
twin sister
twin sisterhood
twin spinnaker rig
twin stock
twin tail wheel
twin tap
twin telescope
twin town
twin triode
twin valve
twin-balled
twin-bearing
twin-begot
twin-blossomed
twin-born
twin-brother
twin-cylinder
twin-engine
twin-engined
twin-engines
twin-existent
twin-float
twin-forked
twin-gun
twin-headed
twin-hued
twin-jet
twin-leaf
twin-leaved
twin-leaves	
twin-lens
twin-lens camera
twin-lens reflex
twin-lens reflex camera
twin-light
twin-motor
twin-motored
twin-named
twin-peaked
twin-power
twin-prop
twin-roller
twin-screw
twin-set
twin-sister
twin-six
twin-spiked
twin-spired
twin-spot
twin-striped
twin-tailboom jet
twin-towered
twin-towed
twin-tractor
twin-wheeled
twin-wire
twine around
twine binder
twine braider
twine cutter
twine holder
twine polisher
twine reeler
twine spinner
twine-binding
twine-bound
twine-colored
twine-spinning
twine-toned
twine-twisting
twinge of conscience
twingle-twangle
twinkle of an eye
twinkling of an eye
twinning axis
twinning law
twinning machine
twist and turn
twist around your little finger
twist belting
twist bit
twist drill
twist grip
twist stitch
twist the knife
twist the law to your own ends
twist the lion's tail
twist the meaning
twist the meaning of
twist the words
twist your arm
twisted eglantine
twisted stomach worm
twisted-horn
twisted-stalk
twisting course
twisting machine
twisting pair
twisting path
twisting the lion's tail
twisty-wisty
twit-twat
twitch grass
twitch of conscience
twitch road
twithe finch
twitter-twatter
twittle-twattle
twizzle-twig
two bits
two cents
two dozen
two estates
two fifths
two hundred
two leg
two o'clock
two of a kind
two old
two old cat
two or three
two pair
two shakes
two shakes of a lamb's tail
two times
two weeks
two whoops and a holler
two-a-cat
two-alarm fire
two-along
two-and-a-half stripes
two-and-one-half stripers

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two-cycle
two-cylinder
two-day
two-deck
two-deck vessel
two-decker
two-dimensional
two-dimensional wave
two-dimensionality
two-dimensionally
two-dimensioned
two-dollar
two-dollar bill
two-dollar broker
two-dollar word
two-eared
two-edged
two-em
two-em dash
two-ended
two-eye
two-eyed
two-eyes
two-face
two-faced
two-facedly
two-facedness
two-factor
two-family
two-family house
two-feeder
two-field system
two-figure
two-fingered
two-fisted
two-fisted man
two-floor
two-flowered
two-fluid
two-fold
two-foot
two-foot octave
two-footed
two-for-a-cent
two-for-a-penny
two-forked
two-formed
two-four
two-necked
two-needle
two-nerved
two-oar
two-oared
two-ounce
two-pair
two-part
two-part harmony
two-part time
two-parted
two-party
two-party system
two-pass
two-peaked
two-petaled
two-phase
two-phaser
two-piece
two-piece bow
two-piece suit
two-pile
two-piled
two-pin escapement
two-pipe
two-place
two-platoon
two-platoon system
two-plowed
two-ply
two-point
two-point landing
two-pointic
two-pole
two-position
two-pot screamer
two-pound
two-principle
two-pronged
two-quart
two-rail
two-ranked
two-rate
two-rayed
two-revolution
two-roomed
two-row
two-rowed
two-time loser
two-timed
two-timer
two-timing
two-tined
two-toed
two-toed anteater
two-tone
two-toned
two-tongued
two-toothed
two-topped
two-topsail schooner
two-track
two-tusked
two-twisted
two-unit
two-up
two-valved
two-volume
two-way
two-way communication
two-way radio
two-wheel
two-wheeled
two-wheeler
two-wicked
two-winged
two-winged fly
two-woods
two-word
two-year
two-year college
two-year-old
twofold tackle
twopenny grass
twopenny-halfpenny
twyhynde man
ty block
tyling up
tylo-
tymp stick
tympan frame
tympan sheet
tympanic bone
tympanic cavity
tympanic membrane
tympano-
type A
type AB
type B
type O
type bar
type block
type body
type cabinet
type case
type caster
type characteristic
type class
type cutter
type cutting
type face
type founder
type founding
type foundry
type gauge
type genus
type lice
type locality
type matter
type measure
type metal
type mold
type object
type page
type part
type plate
type rack
type shank
type size
type sizes
type slug
type species
type specimen
type station
type stem
type style
type styles
type theory
type wash
type wheel
type-blackened
type-cast
type-caster
type-casting
type-cutting
type-distributing
type-dressing
type-high
types of
types of containers
types of languages
types of marks
types of photography
typesetting machine
typesetting machines
typewriter brush
typewriter cabinet
typewriter case
typewriter cover
typewriter desk
typewriter eraser
typewriter holder
typewriter key
typewriter mat
typewriter oil
typewriter pad
typewriter paper
typewriter ribbon
typewriter roller
typewriter stand
typewriter table
typewriter type
typewriting telegraph
typh fever
typhlo-
typhlo-ureterostomy
typho-
typhoid bacillus
typhoid carrier
typhoid fever
typhoid spine
typhus fever
typical case
typical example
typical man
typing machine
typing paper
typist's error
typo-
typographical error
tyrrannize over
tyrranny of the majority
tyrant bird
tyrant flycatcher
tyrant sparing none
tyrant wren
tyrant-bought
tyrant-hating
tyrant-quelling
tyrant-ridden
tyrant-scourging
tyrian purple
tyrolean hat
tyrolite green
tyrosine hydroxylase
tzetze fly
u hlan
u-boat
u-mm
u-o umlaut
ua mau ke ea o ka aina i ka pono
uberrima fides
ubi supra
ubussu palm
ucinate epilepsy
ugli fruit
ugly as hell
ugly as sin
ugly as the wrath of God
ugly customer
ugly duckling
ugly person
ugly thing
ugly wind
ugly-cloved
ugly-conditioned
ugly-eyed
ugly-faced
ugly-headed
ugly-looking
ugly-omened
ugly-tempered
ugly-visaged
uh-huh
ujamaa village
uji fly
ukiyo-e
ulcer diet
ulcerative colitis
ule tree
ulla grass
ullage rocket
ulnar nerve
ulnocondylar foramen
ulterior motive
ultima Thule
ultima ratio
ultima ratio regum
ultima thule
ultimate aim
ultimate analysis
ultimate cause
ultimate concern
ultimate constituent
ultimate load
ultimate purpose
ultimate strength
ultimate stress
ultimate truth
ultra vires
ultra-
ultra-Protestantism
ultra-abolitionism
ultra-abstract
ultra-academic
ultra-affected
ultra-aggressive
ultra-ambitious
ultra-angelic
ultra-apologetic
ultra-arbitrary
ultra-argumentative
ultra-atomic
ultra-auspicious
ultra-slow
ultra-ultra
ultrahigh frequency
ultrahigh-frequency
ultrahigh-frequency station
ultramannish bob
ultrashortwave diathermy
ultrasonic detector
ultrasonic diathermy
ultrasonic flow detection
ultrasonic flow detector
ultrasonic inspector
ultrasonic spectacles
ultrasonic speed
ultrasonic therapy
ultraviolet heat
ultraviolet lamp
ultraviolet light
ultraviolet microscope
ultraviolet ray
ultraviolet therapy
um suff
um-
um-hum
um-yum
umber bird
umber-black
umber-brown
umber-colored
umber-rufous
umbilical cord
umbilical hernia
umble pie
umbra tree
umbrella ant
umbrella bird
umbrella bush
umbrella catalpa
umbrella fern
umbrella fir
umbrella grass
umbrella leaf
umbrella maker
umbrella making
umbrella man
umbrella palm
umbrella pine
umbrella plant
umbrella pulley
umbrella sedge
umbrella shell
umbrella stand
umbrella step
umbrella tent
umbrella tree
umbrella-shaped
umbrella-topped
umbro-
umbu-rana
umpire assay
un w
un-
un-American
un-Americanism
un-Australian
un-Austrian
un-Brahminical
un-Christianise
un-Christianised
un-Christianising
un-Christianize
un-Christianized
un-Christianizing
un-Christianlike
un-Christency
un-Christly
un-Christmaslike
un-English
un-Eucharistic
un-Eucharistical
un-Eucharistically
un-European
un-French
un-German
un-Jesuitic
un-Jesuitical
un-Jesuitically
un-Latinised
un-Latinized
un-Negro
un-Scripturality
un-Victorian
un-american
un-co-operating
un-co-operative
un-co-ordinate
un-co-ordinated
un-come-at-able
un-come-at-ableness
un-come-at-ably
un-english
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-ableness
un-hunh
un-numbed
un-panic-stricken
un-preempted
un-reembodied
un-thought-of
una corda
una corda pedal
una voce
unable to
unable to believe your eyes
unable to believe your senses
unable to forget
unable to make ends meet
unable to meet your obligations
unable to pay your creditors
unable to say 'boo' to a goose
unable to say 'no'
unable to show your face
unabridged dictionary
unacceptable person
unaccommodated man
unaccounted-for
unaccustomed to
unacquaintance with evil
unacquainted with
unacquainted with evil
unadorned meaning
unadorned style
unaided eye
unalienable rights
unaligned nation
unalloyed happiness
unanalyzed mass
unanimously elected
unarmored scale
unasked-for
unassisted eye
unattended to
unauthorized absence
unavailable energy
unavoidable casualty
unaware of
unbalanced mind
unbiased observer
unblessed with
unblinking eye
unbloody sacrifice
unblush mg
unbosom yourself
unbroken chord
unbroken sleep
unbuckle your belt
unburden your conscience
unburden your heart
unburden your mind
unburdening yourself
unbuttoned ease
uncalled for
uncalled-for
uncared-for
uncertainty principle
uncertainty relation
unchaste man
unchaste person
unchaste woman
unchecked will
unciform process
uncinate process
uncle sam
unclean spirit
unco guid
uncollected accounts
uncome-at-able
uncommitted amplifier
uncommitted person
uncommitted voter
uncommonly like
uncommunicative person
uncomplimentary remark
unconditional convergence
unconditioned free will
unconditioned reflex
unconditioned response
unconfirmed report
unconscionable price
unconscious drive
unconscious knowledge
unconscious memory
unconscious mind
unconscious of
unconscious urge
uncontrolled growth
uncontrolled spin
unconversant with
uncover yourself
uncreated being
uncritical acceptance
uncross-examined
und so weiter
unda maris
undec-
undecided issue
undecided voter
undeclared war
undecylenic acid
undeniable fact
under a charm
under a cloud
under a spell
under a strain
under active consideration
under advisement
under an eclipse
under an error
under any other name
under arms
under arrest
under attack
under bare poles
under bevel
under canvas
under close arrest
under coercion
under compulsion
under consideration
under construction
under control
under cover
under cover of
under damping
under detention
under discipline
under dominant
under easy sail
under examination
under false colors
under fire
under forced draft
under full steam
under hand and seal
under handicap
under heaven
under house arrest
under investigation
under lock and key
under mediant
under nine
under no circumstances
under oath
under obligation
under one's breath
under one's wing
under pain of
under par
under part
under penalty of
under power
under press of
under press of canvas
under press of sail
under press of sail and steam
under press of steam
under pressure
under privilege
under probation
under protest
under restraint
under revision
under sail
under secretary
under security
under security restrictions
under siege
under steam
under surveillance
under suspicion
under the aegis of
under the auspices of
under the ban
under the ban of secrecy
under the breath
under the circumstances
under the cloak of
under the counter
under the eyes of
under the garb of
under the hammer
under the harrow
under the heel
under the heel of
under the impression
under the influence
under the knife
under the lash
under the lee
under the nose of
under the pretext of
under the protection of
under the rose
under the seal of secrecy
under the shadow of your wing
under the shield of
under the stars
under the sun
under the surface
under the table
under the weather
under the wind
under the wing of
under the wire
under tow
under way
under weigh
under wraps
under your belt
under your breath
under your care
under your command
under your control
under your eyes
under your hand
under your hat
under your jurisdiction
under your nose
under your orders
under your own power
under your thumb
under your very nose
under your wing
under-
under-action
under-body
under-breath
under-carriage
under-chap
under-covert
under-deck
under-dip
under-earth
under-estimate
under-frame
under-garment
underlying meaning
underlying reason
underlying structure
undermine your faith
undermine your reason
underpitch vault
underpower relay
underprivileged, the
undershot wheel
understand by
understand one another
understudy for
undertake operations
undertaker's establishment
undervaluing of self
underwater archaeologist
underwater archaeology
underwater craft
undesirable discharge
undesirable person
undigested securities
undistributed costs
undistributed middle
undivided attention
undivided profits
undreamed-of
undress uniform
undue excitability
undue liberty
undulant fever
undulatory theory
unduly neglected
undying fame
undying friendship
unearned income
unearned increment
uneduced speech
unemployed, the
unemployment benefit
unemployment compensation
unemployment insurance
unequal to
unequal treatment
unequal-lengthed
unequal-limbed
unequal-lobed
unequal-sided
unequal-tempered
unequal-valved
uneven-aged
uneven-carriaged
uneven-handed
uneven-numbered
uneven-priced
uneven-roofed
unexcused absence
unexempt from
unexpended balance
unexplored ground
unexplored territory
unfair competition
unfair discrimination
unfair list
unfair practice
unfairly neglected
unfallen state
unfamiliar with
unfathomed deeps
unfavorable balance of payments
unfavorable wind
unfeel mg
unfinished worsted
unfit for human consumption
unfit to live in
unfold a tale
unforeseen attack
unforgivable sin
unfortunate time
unfortunate woman
unfrozen hydrometeor
unfulfilled pledge
unfunded debt
unfurl a banner
unfurl a flag
unfurl an ensign
unfurl sail
unfurnished uninhabited
unget-at-able
ungka puti
ungrateful wretch
ungreenable black
unh-unh
unhappy about
unhappy lot
unhappy-eyed
unhappy-faced
united action
united front
united nations day
united states
unitive life
units of force
units of mass
units of weight
unity of interest
unity stress
univalent chromosome
univalent vaccine
universal accord
universal affirmative
universal agreement
universal algebra
universal antenna
universal church
universal class
universal concept
universal conception
universal coupling
universal donor
universal ego
universal essence
universal gas constant
universal geometry
universal head
universal joint
universal language
universal law
universal life force
universal military training
universal motor
universal negative
universal plane
universal plate
universal quantifier
universal remedy
universal ruin
universal self
universal solvent
universal stage
universal suffrage
universal symbol
universal time
universal truth
universalistic hedonism
universally admitted
universally recognized
universe of discourse
universe vine
university college
university extension
university settlement
university-bred
university-conferred
university-going
university-sponsored
university-taught
university-trained
unjust legal disability
unjust representation
unknown depths
unknown quantity
unknown soldier
unknown, the
unlapsed state
unlawful assembly
unlawful entry
unlearned capacity
unleash destruction
unleash the hurricane
unleavened bread
unless that
unlicked cub
unlisted securities
unlonged-for
unlooked for
unlooked-for
unlucky day
unlucky hour
unlucky person
unmade-up
unmanned satellite
unmarried person
unmeasured in your praise
unmediated perception
unmindful of
unmistakable sign
unmoth-eaten
unmoved mover
unnarrow-minded
unnarrow-mindedly
unnarrow-mindedness
unnecessary repetition
unnumbered bank account
uno saltu
unobstructed vision
unofficial wife
unorganized data
unorganized ferment
unorganized matter
unpaid accounts
unpaid-for
unpaid-letter
unpaid-letter stamp
unpardonable sin
unparliamentary language
unpath'd waters
unplanned t
unpleasant taste
unpolished rice
unpossessed of
unpracticed in
unprepared for
unprovoked assault
unquestioning belief
unreal hope
unreasonable behaviour
unreasoning impulse
unrefined flour
unrefined mineral
unregistered bank account
unregistered securities
unrelenting attention
unrepeatable expressions
unrestricted propellant
unrhymed poetry
unripe acceptation
unsanctioned behavior
unsaturated fat
unsavory reputation
unsecured bond
unsecured loan
unself-assertive
unself-centered
unself-centred
unself-changing
unself-confident
unself-conscious
unself-consciously
unself-consciousness
unself-denying
unself-determined
unself-evident
unself-indulgent
unself-knowing
unself-opinionated
unself-possessed
unself-reflecting
unself-righteous
unself-righteously
unself-righteousness
unself-sacrificial
unself-sacrifically
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
unself-willedness
unsent-for
unshakable nerves
unshaken confidence
unsheathe your weapon
unsighed-for
unskilled in
unskilled labor
unskilled laborer
unskillful person
unslaked lime
unsorted mass
unsound mind
unsoundness of mind
unsparking of self
unspoken accusation
unspoken consent
unstable as water
unsteady market
unstopper your ears
unsuitable time
unsupported by evidence
unsure of yourself
unswerving attention
unsymmetrical loading
untalked-of
unthinking response
unthought-of
unthought-on
unthought-out
untie the knot
untie the purse strings
untie your hands
until now
until the conclusion of
until then
until this time
until tomorrow
until we meet again
untimely end
unto the ends of the earth
unto yourself
untongue-tied
untouched by evil
untreated mineral
unup-braided
unused to
unutterable sin
unverified report
unverified supposition
unversed in
unwanted person
unwarranted demand
unwed condition
unwed state
unwedded to an opinion
unwelcome guest
unwell-intentioned
unwholesome joy
unwilling to accept
unwilling to forgive and forget
unwinking eye
unwise step
unwished-for
unwitting disclosure
unworm-eaten
unworthy of belief
unworthy of consideration
unworthy of one
unworthy of regard
unworthy person
unwritten constitution
unwritten law
up a stump
up a tree
up against
up against it
up ahead
up and about
up and around
up and at 'em
up and coming
up and die
up and do
up and doing
up and down
up and go
up attic
up for
up for discussion
up for grabs
up for hearing
up for investigation
up for sale
up helm
up in arms
up in the air
up in the world
up left
up north
up oars
up on
up on end
up quark
up right
up steps
up the creek
up the river
up the spout
up the wind
up till
up to
up to date
up to expectation
up to grade
up to now
up to par
up to scratch
up to snuff
up to standard
up to the ears
up to the elbows
up to the eyes
up to the hilt
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

up to the mark
up to the minute
up to the notch
up to the present
up to the time of
up to this time
up to your ears
up to your ears in
to your ears in debt
up to your elbows
up to your elbows in
up to your neck in
to town
to your alley
to your pay
to your sleeve
to your street
to-
to-a-daisy
to-anchor
to-and
to-and-coming
to-and-comingness
to-and-doing
to-and-down
to-and-down dial
to-and-down indicator
to-and-downish
to-and-downishness
to-and-downness
to-and-downy
to-and-over
to-and-under
to-and-up
to-bow
to-bow sign
to-chuck
to-country
to-end
to-grade
to-market
to-over
to-page
to-patient
to-put
to-putting
to-see-daisy
to-sky
up-stream
up-stroke
up-to-date
up-to-dately
up-to-dateness
up-to-datish
up-to-datishness
up-to-the-minute
up-trending
up-wind
upas tree
upfeed system
uphill going
uphill work
upholsterer bee
upholsterer's needle
upland cotton
upland hickory
upland plover
uplift brassiere
upmost height
upon condition that
upon even terms
upon oath
upon pain of
upon presentation
upon shares
upon sight
upon something
upon the heels of
upon the hip
upon the point of
upon the whole
upon this bank and shoal of time
upon trust
upon which
upon your hands
upon your honor
upper air
upper arm
upper atmosphere
upper berth
upper bo
upper bound
upper bracket
upper case
upper chamber
upper circles
upper class
upper classes
upper classman
upper crust
upper cut
upper deck
upper extremity
upper frequencies
upper hand
upper house
upper leather
upper limit
upper middle class
upper mordent
upper partial tone
upper regions
upper school
upper semicontinuous function
upper side
upper spanker
upper story
upper ten
upper ten thousand
upper works
upper-case
upper-cased
upper-casing
upper-circle
upper-class
upper-cruster
upper-form
upper-grade
upper-school
uppermost height
uppers and lowers
upright drill
upright piano
upright shave
upright-growing
upright-grown
upright-hearted
upright-heartedness
upright-minded
upright-standing
upright-walking
ups and downs
ups and downs of life
upset one's applecart
upset price
upset stomach
upset the
upset the boat
upset your applecart
upsetting lever
upsetting moment
upsetting thermometer
upside down
upside downward
upside-down
upside-down cake
upside-down flag
upside-downism
upside-downness
upside-downwards
upsilon particle
upstairs and downstairs
upstairs maid
upswept hairdo
upsy-daisy
upsy-freesy
upsy-turvy
upward looking
upward mobility
upward mordent
upward motion
upward strabismus
upward system
upward-borne
upward-bound
upward-gazing
upward-looking
upward-pointed
upward-rushing
upward-shooting
upward-stirring
upward-striving
upward-turning
upwards of
ur washed
ur-
ural-altaic
uralite-gabbro
uralo-
uran-
uranite group
uranium 235
uranium 238
uranium dioxide
uranium glass
uranium lead
uranium nitrate
uranium oxide
uranium ray
uranium reactor
uranium red
uranium series
uranium trioxide
uranium yellow
uranium-radium series
urano-
urano-
uranosouranic oxide
urate arthritis
urban blight
urban blues
urban center
urban complex
urban district
urban economy
urban guerrilla
urban market
urban planner
urban redevelopment
urban renewal
urban sociology
urban sprawl
urbi et orbi
urchin fish
urdor urd
ure-ox
urea ferment
urea formaldehyde
urea frost
urea-formaldehyde
urea-formaldehyde resin
uredo-fruit
ureido group
ureido radical
ureo-
uretero-
uretero-ureterostomy
uretero-uterine
urethr-
urethral arthritis
urethral fever
urethro-  
ureylene group  
ureylene radical  
urge along  
urge as a motive  
urge on  
urge on the mind  
urge reasons for  
urge upon  
urgent need  
uric acid  
uric-acid  
urim and thummim  
urin-  
urinal fever  
urinalysis kit  
urinary bladder  
urinary calculus  
urine analysis  
uriniferous tubule  
urino-  
urinogenital disease  
urinogenital ridge  
urinogenital sinus  
urn burial  
urn field  
urn moss  
urn schemata  
urn-buried  
urn-cornered  
urn-enclosing  
urn-shaped  
urn-topped  
uro-  
urogenital disease  
urogenital system  
urological surgery  
uropygial gland  
urradhus law  
ursa major  
ursa minor  
ursine dasyure  
ursine howler  
urucu-rana  
urucuri iba  
usar grass  
usara root  
use a light hand
use a light rein
use advisedly
use an experimental sample
use as a doormat
use as a meal ticket
use badly
use district
use faulty grammar
use for your own ends
use force
use force upon
use hindsight
use ill
use inadmissible grammar
use inappropriate grammar
use informal speech
use informal style
use inheritance
use language
use loosely
use materials
use money
use of words
use one's head
use radar
use reason
use tax
use terror tactics
use terrorist tactics
use the gray matter
use the mails
use the mind
use the occasion
use the old bean
use time
use to advantage
use to the full
use tobacco
use unadvisedly
use up
use violence
use your endeavor
use your fine Italian hand
use your good offices
use your head
use your influence
use your option
use your palate
use your wits
use-money
used to
used to keep two parts separated
used up
used with the
used-car lot
used-up
useful consciousness
useful lift
useful load
usher in
usher into the world
usher-in
using up
using-ground
usque ad aras
usual, the
usurp the crown
usurp the mantle
usurp the throne
usus loquendi
ut infra
ut supra
uterine brother
uterine kin
uterine sister
utero-
uti possidetis
utile dulci
utility man
utility plane
utility player
utility pole
utility room
utility sash
utmost extent
utmost height
uto-aztecan
utopian socialism
utopian socialist
utter a caveat
utter a judgment
utter a mot
utter bar
utter barrister
utter darkness
utter defeat
utter rout
utter threats against
utterance string
utterly attentive
utterly detest
uva grass
uva-ursi
uvi yam
uviol glass
uviol lamp
uzara root
v aux
v sign
v-day
v-eight
v-engine
v-particle
vCechy
vCeskd
vCeskoslovensko
va' via
va-et-vien
va-t'-en
vacancy clause
vacant possession
vacant post
vacant-brained
vacant-eyed
vacant-headed
vacant-looking
vacant-minded
vacant-mindedness
vacant-seeming
vacation barrister
vacation church school
vacation school
vaccinal fever
vaccine lymph
vaccine point
vaccine rash
vaccine therapy
vaccino-syphilis
vachette clasp
vacuum boiler
vacuum bottle
vacuum brake
vacuum breaker
vacuum bulb
vacuum can
vacuum cleaner
vacuum cleaning
vacuum coffee maker
vacuum concrete
vacuum condenser
vacuum crystallizer
vacuum desiccator
vacuum distillation
vacuum drier
vacuum engine
vacuum evaporating
vacuum fan
vacuum filter
vacuum flask
vacuum gauge
vacuum hammer
vacuum induction furnace
vacuum jar
vacuum kettle
vacuum line
vacuum machine
vacuum oven
vacuum pack
vacuum pan
vacuum phototube
vacuum pump
vacuum separator
vacuum shunt
vacuum still
vacuum strainer
vacuum sweeper
vacuum tank
vacuum tar
vacuum tester
vacuum trap
vacuum tube
vacuum tube components
vacuum tube rectifier
vacuum valve
vacuum ventilation
vacuum vessel
vacuum-clean
vacuum-packed
vacuum-tube circuit
vacuum-tube electrometer
vacuum-tube hearing aid
vacuum-tube voltmeter
vade in pace
vade mecum
vade mecums
vade-mecum
vadium mortuum
vadium vivum
vaevictis
vag-
vagabond green
vagino-
vagrant impulse
vague appearance
vague feeling
vague idea
vague memory
vague notion
vague supposition
vague-eyed
vague-ideaed
vague-looking
vague-menacing
vague-minded
vague-phrased
vague-shining
vague-worded
vain attempt
vain expectation
vain person
vain pretensions
vain show
vair en point
vale of tears
vale of years
valedictory address
valence electron
valence electrons
valence formula
valence isomerism
valence number
valence shell
valency electron
valent atoms and radicals
valentine day
valeric acid
valero-
valet de chambre
valet de pied
valet-de-chambre
valet-de-place
vailliant knight
valid contract
vallary crown
vallate papilla
vallecular canal
valley board
valley breeze
valley flat
valley lily
valley mahogany
valley oak
valley of the shadow of death
valley partridge
valley quail
valley rafter
valley roof
valley tile
valley train
valley white oak
valley wind
valonia oak
valuable consideration
valuation account
valuation survey
value added
value added tax
value date
value judgment
value received
value stress
value system
value theory
value-added tax
valued at
valued policy
valued-policy law
valval view
valve body
valve box
valve cage
valve cap
valve casing
valve casting
valve chamber
valve chest
valve control
valve coupling
valve cup
valve diagram
valve ellipse
valve file
valve filter
valve fitting
valve gear
valve generator
valve grinder
valve handle
valve housing
valve indicator
valve key
valve line
valve motion
valve plate
valve ring
valve rod
valve seat
valve spring
valve stem
valve tool
valve travel
valve trombone
valve trumpet
valve view
valve washer
valve wrench
valve-grinding
valve-in-head engine
valve-shaped
valvular incompetence
valvular insufficiency
vamp up
vampire bat
van Eyck
van Gogh
van Ruisdael
van attendant
van boy
van builder
van de graaff generator
van der Rohe
van der Waals equation
van der Waals forces
van der Waals' forces
van der Weyden
van driver
van load
van loader
van owner
van't Hoff
van-courier
van-foss
van-john
van-winged hawk
vanadic acid
vanadium bronze
vanadium family
vanadium oxide
vanadium steel
vanadosous oxide
vandyke brown
vanilla bean
vanilla chica
vanilla extract
vanilla grass
vanilla leaf
vanilla plant
vanilla pudding
vanille ice
vanillyl alcohol
vanish from sight
vanish into thin air
vanish like a dream
vanishing cream
vanishing fraction
vanishing line
vanishing point
vanishing trace
vanity bag
vanity box
vanity case
vanity fair
vanity lamp
vanity plate
vanity press
vanity unit
vanity-proof
vant-
vantage game
vantage ground
vantage point
vantage post
vantage-ground
vapor bath
vapor bathing
vapor burner
vapor cabinet
vapor cloud
vapor condenser
vapor density
vapor engine
vapor heating
vapor inhaler
vapor jacket
vapor lamp
vapor lock
vapor plane
vapor pressure
vapor regulator
vapor stove
vapor tension
vapor trail
vapor treatment
vapor tube
vapor valve
vapor volume
vapor-belted
vapor-braided
vapor-burdened
vapor-clouded
vapor-filled
vapor-headed
vapor-producing
vapor-sandaled
vaporer moth
vapour density
vapour lock
vapour pressure
vapour trail
vapour-bath
vare widgeon
vari-
vari-coloured
varia lectio
variable annuity
variable capacitor
variable condenser
variable cost
variable density system
variable error
variable field
variable star
variable time fuze
variable-mu tube
variable-reluctance microphone
variable-speed gear
variable-speed motor
variable-time fuse
variae lectiones
variance analysis
variant reading
variation chart
variation compass
variation factor
variation of parameters
variation range
varico-
varicose aneurysm
varicose vein
varicose veins
varied robin
varied thrush
variegated pattern
variegated-leaved
variety hybrid
variety meat
variety shop
variety show
variety store
varifocal lens
vario-
variola porcina
various-blossomed
various-colored
various-formed
various-leaved
variscite green
varix lymphaticus
varnish brush
varnish cleaner
varnish dryer
varnish filler
varnish gum
varnish maker
varnish remover
varnish renovator
varnish resins
varnish sumac
varnish thinner
varnish tree
varnish-drying
varnish-making
varnish-treated
varnish-treating
varnishing day
varsity socks
varsity student
varve-count
varying duty
varying hare
varying-speed motor
vas deferens
vas-
vasa deferentia
vasa murrhina
vasa parrot
vascular bundle
vascular cylinder
vascular hemophilia
vascular plant
vascular ray
vascular tissue
vase clock
vase painter
vase painting
vase rug
vase-shaped
vase-vine
vaso-
vaso-motor
vassal state
vast knowledge
vast-dimensioned
vast-rolling
vast-skirted
vastus intermedius
vastus lateralis
vastus medialis
vat builder
vat color
vat dye
vat keeper
vat liquor
vat setter
vat waste
vat-dyed
vat-net
vates sacer
vegetable albumin
vegetable alkali
vegetable anatomy
vegetable bezoar
vegetable black
vegetable brimstone
vegetable butter
vegetable calomel
vegetable cheese
vegetable dye
vegetable earth
vegetable egg
vegetable ethiops
vegetable existence
vegetable fibrin
vegetable flannel
vegetable garden
vegetable gelatin
vegetable glue
vegetable gold
vegetable hair
vegetable ivory
vegetable jelly
vegetable kingdom
vegetable lamb
vegetable life
vegetable market
vegetable marrow
vegetable mold
vegetable naphtha
vegetable oil
vegetable oils
vegetable orange
vegetable oyster
vegetable parchment
vegetable pathology
vegetable physiology
vegetable plate
vegetable red
vegetable remedies
vegetable resins
vegetable satyr
vegetable sheep
vegetable silk
vegetable soup
vegetable spermaceti
vegetable sponge
vegetable stock
vegetable store
vegetable tallow
vegetable tanning
vegetable wax
vegetable wool
vegetable-eating
vegetable-feeding
vegetable-growing
vegetable-tallow tree
vegetal pole
vegetation daemon
vegetation daimon
vegetation demon
vegetation spirit
vegetation-proof
vegeto-
vehement action
vehicle tank
vehicular tunnel
veil of secrecy
veil-hid
veil-wearing
veiled accusation
veiled in darkness
veiled threat
veiled voice
vein claim
vein dike
vein islet
vein quartz
vein-bearing
vein-healing
vein-mining
vein-streaked
veining tool
velar-pharyngeal
veld cornet
veld sickness
veld sore
veld-
veld-kost
velic point
velleda moth
vellum binder
vellum binding
vellum cloth
vellum form
vellum paper
venomous-hearted
venomous-looking
venomous-minded
venous blood
venous transfusion
vent drill
vent feather
vent punch
vent stack
vent tank
vent wire
vent your anger
vent your choler
vent your rancor
vent your spleen
vent-hole
vent-peg
ventilate inboard
ventilating apparatus
ventilating blower
ventilating brick
ventilating column
ventilating engineer
ventilating fan
ventilating grate
ventilating jack
ventilating millstone
ventilating shaft
ventilating skylight
ventilating system
ventilation engineer
ventri-
ventral airdome
ventral fin
ventral radome
ventricular fibrillation
ventro-
venture a guess
venture capital
venture on
venture to
venture to say
venture upon
venturi tube
venus's-flytrap
veratr-
veratric acid
vermeil-tinted
vermeil-veined
vermi-
vermiform appendix
vermiform process
vermilion rockfish
vermilion-colored
vermilion-dyed
vermilion-red
vermilion-spotted
vermilion-tawny
vermilion-veined
vermin-covered
vermin-destroying
vermin-eaten
vermin-footed
vermin-haunted
vermin-infested
vermin-ridden
vermin-spoiled
vermin-tenanted
vermouth cassis
vernacular language
vernacular speech
vernal equinox
vernal grass
vernal point
vernal-bearded
vernal-blooming
vernal-flowering
vernal-seeming
vernal-tinctured
verner's law
vernier caliper
vernier dial
vernier engine
vernier micrometer
vernier rocket
vernier scale
vernier telescope
vernis Martin
vernix caseosa
vernonia purple
verruci-
vers de societe
vers de socit
vers libre
vers librist
vers libriste
vers-librist
versatile digit computer
verse anthem
verse service
verse-colored
verse-commemorated
verse-prose
verse-writing
versed cosine
versed in
versed sine
version book
vert russe
vertebral arthritis
vertebral column
vertebro-
vertical amplifier
vertical angle
vertical angles
vertical circle
vertical combination
vertical combinationalness
vertical deflector
vertical distance
vertical engine
vertical envelopment
vertical file
vertical fin
vertical fire
vertical grouping
vertical height
vertical integration
vertical interference
vertical lift bridge
vertical mobility
vertical overlap
vertical radiator antenna
vertical rays
vertical saw
vertical stabilizer
vertical synchronizer
vertical synchronizing pulse
vertical union
vertical-grained
vertical-lift mower
vervain family
vervain hummingbird
vervain mallow
vervain sage
vervain thoroughwort
very beginning
very best
very good
very high frequency
very image
very important person
very light
very like
very likely
very low frequency
very many
very model
very much
very much alive
very picture
very pistol
very reverend
very same
very seldom
very thing
very top
very truth
very well
very-high-frequency
vesica piscis
vesicatory gas
vesico-
vesico-umbilical
vesico-urachal
vesico-ureteral
vesico-urethral
vesico-uterine
vesicular exanthema
vesicular stomatitis
vesper bird
vesper mouse
vesper sparrow
vest in
vest with
vest-pocket
vest-pocket camera
vestal virgin
vested authority
vested estate
vested interest
vested interests
vested right
vestibule car
vestibule latch
vestibule of Day
vestibule school
vestibule train
vestibulo-urethral
vestigial transmission
vesting order
vestry board
vestry room
vesuvian jade
vesuvianite jade
vetch-leaved
veteran car
Veterans Day
Veterans hospital
Veterans' preference
Veterinary corps
Veterinary medicine
Veterinary science
Veterinary surgeon
Veterinary surgery
vetiver green
vetivert oil
veto message
veto power
vexation of spirit
vexed question
vi apple
vi et armis
via media
via-medialism
vials of hate
vials of wrath
viande de boucherie
vibration and stress analyzer
vibration massage
vibration meter
vibration number
vibration point
vibration treatment
vibration-proof
vibratory current
vibratory massage
vibrionic abortion
vibro-
vice-commodore
vice-constable
vice-consul
vice-consular
vice-consulate
vice-consulship
vice-corrupted
vice-county
vice-created
vice-dean
vice-deity
vice-detesting
vice-dictator
vice-director
vice-emperor
vice-freed
vice-general
vice-government
vice-governor
vice-governorship
vice-guilty
vice-haunted
vice-headmaster
vice-imperial
vice-king
vice-kingdom
vice-laden
vice-legate
vice-legateship
vice-librarian
vice-lieutenant
vice-loathing
vice-marred
vice-marshall
vice-master
vice-ministerial
vice-nature
vice-palatine
vice-papacy
vice-patron
vice-patronage
vice-polluted
vice-pope
vice-porter
vice-postulator
vice-prefect
vice-premier
vice-pres
vice-presidency
vice-president
vice-presidential
vice-presidentship
vice-priest
vice-principal
vice-principalship
vice-priest
vice-prone
vice-protector
vice-provost
vice-provostship
vice-punishing
vice-queen
vice-rebuking
vice-rector
vice-rectorship
vice-regal
vice-regalize
vice-regency
vice-regent
vice-reign
vice-residency
vice-resident
vice-secretary
vice-sheriff
vice-sick
vice-squandered
vice-stadtholder
vice-steward
vice-sultan
vice-taming
vice-tenace
vice-throne
vice-treasurer
vice-treasurership
vice-trustee
vice-upbraiding
vice-verger
vice-viceroy
vice-warden
vice-wardenry
vice-wardenship
vice-worn
viceregal assent
vichy water
vicious circle
vicious reasoning
vicissitudes of fortune
vicontiel rent
vicontiel writ
victoria cross
victoria plum
victory garden
victory girl
victory medal
victual rent
victualing bill
victualing house
victualing note
victualing office
victualing ship
victualing station
victualing yard
vida finch
vide ante
vide infra
vide post
vide supra
vide ut supra
video amplifier
video channel
video detector
video frequency
video game
video monitor
video signal
video static
video tape
video tape recorder
video transmitter
video truck
video-gazer
videotape recorder
vie against
vie for
vie with
vienna sausage
view angle
view as
view camera
view finder
view halloa
view halloo
view in a new light
view in all its phases
vin du pays
vin mousseux
vin ordinaire
vin rose
vin rouge
vin-
vin-jaune
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matrimonii
vindicate a claim to
vindicate a right to
vindicate a title to
vine bamboo
vine bark louse
vine beetle
vine black
vine borer
vine bower
vine cactus
vine chafer
vine forester
vine fretter
vine hawk moth
vine hopper
vine leaf
vine leaf folder
vine leek
vine louse
vine maple
vine mesquite
vine mildew
vine misquite
vine moth
vine peach
vine pest
vine sawfly
vine scale
vine slug
vine snake
vine sorrel
vine sphinx
vine tie
vine turner
vine webworm
vine weevil
vine wilt
vine-bearing
vine-bordered
vine-clad
vine-covered
vine-crowned
vine-decked
vine-dresser
vine-encircled
vine-fed
vine-garlanded
vine-growing
vine-hung
vine-laced
vine-leafed
vine-leaved
vine-mantled
vine-planted
vine-producing
vine-robed
vine-shadowed
vine-sheltered
vine-wreathed
vinegar aspect
vinegar eel
vinegar essence
vinegar fly
vinegar lamp
vinegar maker
vinegar making
vinegar mother
vinegar plant
vinegar rot
vinegar tree
vinegar worm
vinegar-faced
vinegar-flavored
vinegar-generating
vinegar-hearted
vinegar-tart
vineyard plow
vingt-et-un
vinho verde
vini-
vino de pasto
vino-
vins ordinaires
vintage car
violet carmine
violet cress
violet family
violet iris
violet prairie clover
violet ray
violet root
violet root rot
violet sage
violet shell
violet shift
violet tip
violet water
violet wood
violet wood sorrel
violet-black
violet-blind
violet-blindness
violet-bloom
violet-blue
violet-brown
violet-colored
violet-coloured
violet-crimson
violet-crowned
violet-dyed
violet-ear
violet-eared
violet-embroidered
violet-flowered
violet-garlanded
violet-gray
violet-green
violet-green swallow
violet-headed
violet-horned
violet-hued
violet-inwoven
violet-purple
violet-rayed
violet-red
violet-ringed
violet-scented
violet-shrouded
violet-stoled
violet-striped
violet-sweet
violet-tailed
violet-throated
violin bow
violin case
violin clef
violin diapason
violin piano
violin string
violin-shaped
violino piccolo
violoncello piccolo
viper broth
viper gourd
viper grass
viper lozenge
viper wine
viper's bugloss
viper's grass
viper-bit
viper-curled
viper-haunted
viper-headed
viper-mouthed
viper-nourished
vir et uxor
viral dysentery
virgin birth
virgin bower
virgin dip
virgin forest
virgin honey
virgin knot
virgin land
virgin mary
virgin moth
virgin parchment
virgin rosin
virgin scammony
virgin soil
virgin spawn
virgin state
virgin territory
virgin tree
virgin wax
virgin widow
virgin wool
virgin's bower
virgin's milk
virgin's-bower
virgin-born
virgin-eyed
virgin-minded
virgin-vested
virginia cowslip
virginia creeper
virginia fence
virginia reel
virginibus puerisque
virgo intacta
viridine green
viridine yellow
virola tallow
virtual focus
virtual image
virtual storage
virtue-armed
virtue-binding
virtue-loving
virtue-tempting
virtue-wise
virtute et armis
virus disease
virus pneumonia
virus warfare
vis comica
vis inertiae
vis major
vis mortua
vis vitae
vis vitalis
vis viva
vis-a-ns
vis-a-vis
vis-a-visness
viscera itch
visceral leishmaniasis
visceral rheumatism
viscero-
vise cap
vise chuck
vise coupling
visibility curve
visibility meter
visibility unlimited
visibility zero
visible balance
visible horizon
visible radiation
visible spectrum
visible speech
visible-speech data
vision-directed
vision-filled
vision-haunted
vision-seeing
vision-struck
visit at
visit upon
visit with
visitations of providence
visiting book
visiting card
visiting day
visiting fireman
visiting list
visiting nurse
visiting patrol
visiting professor
visiting teacher
visiting ticket
visitor-general
vista of time
visual acuity
visual aid
visual aids
visual arts
visual binary
visual display unit
visual examination
visual field
visual flight
visual flight rules
visual flying
visual humor
visual image
visual joke
visual magnitude
visual memory
visual organ
visual purple
visual range
visual sense
visual tracking station
visual violet
visual yellow
visual-aural radio range
visual-aural range
vita contemplativa
vita glass
vital body
vital capacity
vital center
vital concern
vital energy
vital flame
vital fluid
vital force
vital function
vital impulse
vital interest
vital principle
vital soul
vital spark
vital spirit
vital staining
vital statistics
vitam impendere vero
vitamin A
vitamin A1
vitamin A2
vitamin B
vitamin B complex
vitamin B1
vitamin B12
vitamin B2
vitamin B6
vitamin Bc
vitamin C
vitamin D
vitamin D2
vitamin D3
vitamin E
vitamin G
vitamin H
vitamin K
vitamin K1
vitamin K2
vitamin K3
vitamin M
vitamin P
vitamin a
vitamin b
vitamin b12
vive valeque
viverrine cat
viverrine otter
vivi-
vivid description
vivid image
vivid imagination
vizard maker
vizard making
vizard mask
vizard-faced
vizard-hid
vizard-mask
vizard-wearing
voa vanga
vocabulary entry
vocabulary test
vocal band
vocal bands
vocal chink
vocal cord
vocal cords
vocal fold
vocal folds
vocal fremitus
vocal lip
vocal minority
vocal music
vocal organ
vocal process
vocal processes
vocal resonance
vocal sac
vocal score
vocalic alliteration
vocational advisor
vocational council
vocational counselor
vocational director
vocational education
vocational guidance
vocational school
vocational therapy
vocational training
voce di petto
voce di testa
voce velata
vodka martini
vogue la galere
vogue word
voice box
voice coil
voice glide
voice glottis
voice key
voice leading
voice of conscience
voice of the tempter
voice part
voice placing
voice qualifier
voice quality
voice stop
voice tube
voice vote
voice-leading
voice-over
voiced breath
voiced sound
voiceless glide
voiceless sound
void end
void of
void of truth
void space
voided cross
voided lozenge
voir dire
voir en couleur de rose
voix celeste
voix cleste
vol-au-vent
volant piece
volar accessory ligament
volar carpal ligament
volatile alkali
volatile liniment
volatile oil
volatile salt
volcanic ash
volcanic bomb
volcanic cloud
volcanic cone
volcanic dust
volcanic glass
volcanic lake
volcanic pipe
volcanic plug
volcanic rock
volcanic tuff
volcanic water
volcanic wind
volcano fish
volitional tremor
volley fire
volt box
volt-ammeter
volt-ampere
volt-ampere-hour meter
volt-coulomb
volt-ohm meter
volt-ohm-milliammeter
volt-second
volta's pile
volta-
voltage amplification
voltage changer
voltage coil
voltage divider
voltage gradient
voltage indicator
voltage pulse
voltage ratio
voltage regulator
voltage relay
voltage saturation
voltage stabilizer
voltage transformer
voltage-reference tube
voltage-regulator tube
voltaic battery
voltaic cell
voltaic circuit
voltaic couple
voltaic current
voltaic electricity
voltaic pile
voltmeter law
volte-face
voltmeter-milliammeter
voluble-tongued
volume color
volume control
volume density
volume displacement
volume engineer
volume indicator
volume integral
volume measure
volume measures
volume production
volume resistance
volume table
volume velocity
volume-produce
volume-produced
volumetric analysis
volumetric flask
volumetric solution
volumetric strain
voluntary affidavit
voluntary association
voluntary bankruptcy
voluntary conveyance
voluntary escape
voluntary hospital
voluntary improvement
voluntary inaction
voluntary jurisdiction
voluntary manslaughter
voluntary muscle
voluntary muscles
voluntary oath
voluntary poverty
voluntary resignation
voluntary school
voluntary waste
volunteer army
volunteer fireman
volunteer militia
volunteer navy
volunteer soldier
volunteers of america
volute centrifugal pump
volute compass
volute pump
volute spring
volutin granule
vomerine cartilage
vomic nut
vomit forth
vomit nut
vomit out
vomiting center
vomiting gas
vomito negro
von Braun
von Neumann
von Sternberg
vortex atom
vortex filament
vortex fringe
vortex line
vortex plate
vortex ring
vortex sheet
vortex theory
vortex tube
vortex wheel
vortical motion
votary candle
vote affirmatively
vote against
vote aye
vote checking
vote counter
vote down
vote for
vote in
vote in the negative
vote nay
vote negatively
vote-bringing
vote-buying
vote-casting
vote-catch ing
voter-preference survey
voting age
voting bond
voting booth
voting machine
voting paper
voting right
voting stock
voting trust
voting-right certificate
votive candle
votive mass
votive medal
votive offering
votive office
vouch for
vouched for
voucher check
voucher register
voucher system
vouchers payable
voussoir-shaped
vow-bound
vow-breaking
vow-keeping
vow-pledged
vowel flame
vowel gradation
vowel harmony
vowel mutation
vowel point
vowel quantity
vowel rhyme
vowel system
vows of poverty
vox angelica
vox barbara
vox caelestis
vox et praeterea nihil
vox humana
vox pop
vox populi
vox populi vox Dei
voyage policy
vrai reseau
vt fuze
vulcanite grinding wheel
vulcanite pavement
vulcanized fiber
vulcanized rubber
vulgar era
vulgar establishment
vulgar fellow
vulgar fraction
vulgar language
vulgar latin
vulgar person
vulgar purgation
vulgar substitution
vulgar taste
vulgar tongue
vulnerable place
vulnerable point
vulnerable to
vulnerant omnes ultima necat
vulpine opossum
vulture hock
vulture raven
vulture-beaked
vulture-gnawn
vulture-hocked
vulture-rent
vulture-torn
vulture-tortured
vulture-winged
vulturine eagle
vulturine guinea fowl
vulturine sea eagle
vulvo-
w will
wamble saw
waberan-leaf
wabert-leaf
wad hook
wad up
wade an
wade in
wade into
wade knee-deep in blood
wade through
wading bird
wading pool
wadmel wadmol
wafer ash
wafer bread
wafer cake
wafer capsule
wafer cutter
wafer iron
wafer paper
wafer sheet
wafer stamp
wafer tong
wafer-sealed
wafer-thin
wafer-torn
waffle cloth
waffle ingot
waffle iron
waft on the ear
wag the tongue
wag-on-the-wall
wag-tongue
wage board
wage capital
wage contract
wage control
wage earner
wage earning
wage fixing
wage freeze
wage fund
wage labor
wage level
wage paying
wage peace
wage rate
wage reduction
wage rollback
wage scale
wage slave
wage slavery
wage system
wage war
wage-fund theory
wage-plug
wager policy
wagering contract
wages after deductions
wages after taxes
wages fund
wages plus fringe benefits
wages-man
waggish trick
waggon-headed
wagh down
waging board
wagon bed
wagon boiler
wagon boss
wagon box
wagon breast
wagon ceiling
wagon filler
wagon greaser
wagon gun
wagon hammer
wagon jobber
wagon lock
wagon master
wagon road
wagon roof
wagon seat
wagon shed
wagon shoe
wagon soldier
wagon table
wagon tent
wagon tongue
wagon top
wagon track
wagon trail
wagon train
wagon tree
wagon truck
wagon vault
wagon wheel
wagon yard
wagon-headed
wagon-lit
wagon-roofed
wagon-shaped
wagon-spring clock
wagon-vaulted
wagtail flycatcher
waifs and strays
waika chewstick
wail of woe
wailing wall
wainscot chair
wainscot oak
wainscot-faced
wainscot-joined
wainscot-paneled
waist anchor
waist belt
waist board
waist boat
waist boater
waist gun blister
waist strap
waist tree
waist-deep
waist-high
waist-pressing
waist-slip
wait a minute
wait a second
wait and see
wait and see policy
wait fee
wait for
wait for something to turn up
wait impatiently
wait it out
wait on
wait on hand and foot
wait out the market
wait service
wait table
wait to see how the cat jumps
wait to see how the wind blows
wait up
wait up for
wait upon
wait with bated breath
wait-a-bit
wait-awhile
waiter on Providence
waiter-on
waiting concealed
waiting for
waiting game
waiting it out
waiting list
waiting maid
waiting man
waiting period
waiting room
waiting woman
waiver of premium
wake current
wake dirge
wake up
wake-robin
wake-up
wakeless sleep
waking dream
waking time
waldorf salad
wale knot
wale shore
walk a middle path
walk all over
walk away
walk away with
walk clerk
walk hand in hand with
walk humbly with your God
walk in darkness
walk in the shoes of
walk in your sleep
walk into
walk of life
walk off
walk off with
walk off with the game
walk on
walk on air
walk on eggshells
walk on hot coals
walk out
walk out on
walk over
walk over the course
walk the earth
walk the plank
walk the straight path
walk the tracks
walk the waters
walk up
walk-around
walk-down
walk-in
walk-in apartment
walk-in closet
walk-on
walk-over
walk-through
walk-up
walker-on
walkie-lookie
walkie-talkie
walking bass
walking beam
walking boat
walking crane
walking dead man
walking delegate
walking encyclopedia
walking engine
walking excursion
walking fern
walking fish
walking gentleman
walking lady
walking leaf
walking line
walking mort
walking papers
walking part
walking phallus
walking pipe
walking plow
walking scow
walking skeleton
walking staff
walking stick
walking straw
walking sword
walking toad
walking tour
walking twig
walking tyrant
walking wheel
walking-out
walking-stick
walking-stick palm
walking-sticked
walky-talkies
walky-talky
wall anchor
wall arcade
wall barley
wall bars
wall bearing
wall bed
wall bee
wall box
wall bracket
wall bugloss
wall cabbage
wall cabinet
wall card
wall clamp
wall crane
wall creeper
wall cress
wall engine
wall fern
wall frame
wall fruit
wall garden
wall gecko
wall germander
wall gillyflower
wall grass
wall green
wall grenade
wall hanging
wall hawkweed
wall hold
wall hook
wall in
wall iron
wall knot
wall link
wall lizard
wall molding
wall mustard
wall of secrecy
wall off
wall painting
wall pass
wall pellitory
wall penny grass
wall pennywort
wall pepper
wall pie
wall plate
wall plug
wall pocket
wall rock
wall rocket
wall rue
wall rue spleenwort
wall saltpeter
wall socket
wall speedwell
wall spleenwort
wall street
wall telephone
wall tent
wall tower
wall up
wall wasp
wall-bound
wall-checked
wall-climbing
wall-defended
wall-drilling
wall-encircled
wall-eyed
wall-fed
wall-fight
wall-girt
wall-hanging
wall-inhabiting
wall-knot
wall-less
wall-like
wall-loving
wall-piece
wall-piercing
wall-plat
wall-scaling
wall-shaking
wall-sided
wall-to-wall
wall-to-wall carpet
wallaby acacia
wallaby bush
wallaby grass
wallaby-proof
walled plain
walled-in
walled-up
walleye pollack
walleye pollock
walleyed pike
wallflower brown
walling crib
walling wax
walling-in
wallow in
wallow in ignorance
wallow in the mire
wallow in wealth
wallowing in wealth
walnut blight
walnut borer
walnut brown
walnut case-bearer
walnut caterpillar
walnut curculio
walnut family
walnut juice
walnut moth
walnut oil
walnut scale
walnut shell
walnut spanworm
walnut sphinx
walnut tree
walnut weevil
walnut worm
walnut-brown
walnut-finished
walnut-framed
walnut-inlaid
walnut-paneled
walnut-shell
walnut-stained
walnut-trimmed
walpurgis night
walrus bird
walrus moustache
walrus mustache
waltz Matilda
waltz measure
waltz off with
waltz song
waltz time
waltzing Matilda
waltzing mouse
wamble-cropped
wamper-jawed
wampum belt
wampum snake
wan-
wan-cheeked
wan-colored
wan-worn
wand bearer
wand of office
wand shoot
wand shooting
wand shot
wand-bearing
wand-shaped
wand-waving
wander from
wander from the subject
wander termite
wander-year
wandering Jew
wandering albatross
wandering ant
wandering cell
wandering course
wandering dervish
wandering dune
wandering electron
wandering jenny
wandering jew
wandering minstrel
wandering path
wandering scholar
wandering soul
wandering star
wandering tattler
wane cloud
wangle into
wangle out of
waning crescent moon
waning moon
wankel engine
want ad
want doing
want in
want in the worst way
want list
want to
want to know
want with all your heart
want-wit
wantage rod
wanted-right-hand
wanting to fly in the air
wanton cruelty
wanton ringlets wav’d
wanton-cruel
wanton-eyed
wanton-mad
wanton-sick
wanton-tongued
wanton-winged
wapper-eyed
wapper-jawed
war baby
war bag
war bird
war bond
war bonnet
war book
war boom
war boomerang
war bow
war bride
war cabinet
war cart
war cheat
war chest
war cloud
war clouds
war club
war college
war correspondent
war crime
war crimes
war criminal
war cross
war cry
war dance
war debt
war dog
war drum
war eagle
war economy
war flame
war footing
war galley
war game
war gas
war god
war goddess
war gods
war guilt
war hammer
war hat
war hawk
war head
war horse
war hound
war lord
war machine
war medal
war memorial
war neurosis
war of attrition
war of independence
war of movement
war of national liberation
war of nerves
war of position
war of the elements
war of words
war office
war paint
war party
war plans
war power
war proof
war rebel
war risk
war risk insurance
war rocket
war scare
war school
war scythe
war service chevron
war song
war spirit
war stamp
war surplus
war to end war
war traitor
war vessel
war whoop
war zone
war-appareled
war-blasted
war-breathing
war-breeding
war-broken
war-denouncing
war-dight
war-disabled
war-dreading
war-fain
war-famed
war-god
war-goddess
war-hawk
war-horse
war-savings certificate
war-savings stamp
war-tax stamp
war-time
warm spring
warm temper
warm the bency
warm the blood
warm the cockles of the heart
warm the spirits
warm up
warm weather
warm welcome
warm work
warm-backed
warm-blooded
warm-breathed
warm-clad
warm-colored
warm-complexioned
warm-contested
warm-glowing
warm-headed
warm-hearted
warm-kept
warm-lying
warm-reeking
warm-sheltered
warm-tempered
warm-tinted
warm-up
warm-working
warm-wrapped
warmed over
warmed up
warmed-over
warmed-over cabbage
warmed-up
warming house
warming pad
warming pan
warming-pan
warming-up
warminster broom
warmth of color
warmth of feeling
warmth of heart
warn against
warning coloration
warning lever
warning piece
warning sign
warning signal
warp and weft
warp and woof
warp beam
warp frame
warp knit
warp knitting
warp lace
warp land
warp net
warp roll
warp sizer
warp stitch
warp tier
warp-knit
warp-net frame
warp-proof
warped conception
warped judgment
warping bank
warping bridge
warping chock
warping hook
warping-frame
warple way
warrant of arrest
warrant of attorney
warrant officer
warrant trying
warrants off
warrants on
warranty deed
warrior ant
warrior bush
war saw grouper
wart cress
wart disease
wart grass
wart hog
wart snake
wart spurge
warted gourd
warted grass
warted spurge
wartime footing
warts and all
wartly egg
warty-faced honey eater
wary-eyed
wary-footed
wary-looking
wash and wear
wash ball
wash barrel
wash bear
wash boiler
wash boring
wash coat
wash down
wash drawing
wash gilding
wash goods
wash leather
wash mill
wash miller
wash oil
wash out
wash pitcher
wash sale
wash sales
wash strake
wash up
wash water
wash your dirty linen in public
wash your hands of
wash your sins away
wash-and-wear
wash-and-wear fabric
wash-bear
wash-colored
wash-hand
wash-house
wash-in
wash-leather
wash-mouth
wash-out
wash-pot
wash-up
washable paint
washboard road
washed metal
washed out
washed sale
washed up
washed-out
washed-up  
washing bear  
washing bottle  
washing crystal  
washing engine  
washing equipment  
washing machine  
washing maid  
washing out  
washing pot  
washing powder  
washing soda  
washing tub  
washing up  
washing-up  
washington pie  
washington’s birthday  
washout process  
washrag gourd  
wasp ant  
wasp bee  
wasp beetle  
wasp fly  
wasp nest  
wasp spider  
wasp waist  
wasp's nest  
wasp-barbed  
wasp-minded  
wasp-stung  
wasp-waisted  
wasp-waistedness  
wassail bowl  
wassail cup  
wassermann reaction  
wassermann test  
waste away  
waste baling  
waste bank  
waste bin  
waste book  
waste box  
waste boy  
waste breaker  
waste bundler  
waste heat  
waste leaf  
waste lot
waste matter
waste mold
waste no words
waste nut
waste of breath
waste of labor
waste of time
waste pallet
waste pipe
waste product
waste the opportunity
waste the precious hours
waste time
waste time in regret
waste waste
waste well
waste your breath
waste-cleaning
waste-dwelling
waste-heat boiler
waste-heat drier
waste-paper
waste-thrift
waste-wax process
wasted away
wasted loins
wastepaper basket
wastes of outer space
wasting asset
wasting away
wasting disease
wasting palsy
watch adjuster
watch and wait
watch and ward
watch bell
watch bracelet
watch cap
watch chain
watch cleaner
watch coat
watch crystal
watch fire
watch fob
watch for
watch for your moment
watch glass
watch guard
watch it
watch meeting
watch movement
watch night
watch officer
watch out
watch out for
watch over
watch pocket
watch repairer
watch screw thread
watch spring
watch tackle
watch television
watch your step
watch your weight
watch-glass
watch-making
watch-night service
watchet-colored
watchful eye
watchful waiting
watching and waiting
watching brief
watching for
watching rate
watchman beetle
watchman's clock
watchman's rattle
water adder
water agrimony
water aloe
water arum
water avens
water awlwort
water back
water bag
water ballet
water bath
water bear
water bearer
water bed
water beetle
water bench
water bewitched
water bird
water biscuit
water blister
water bloom  
water blue  
water boat  
water boatman  
water bog rush  
water bomb  
water bottle  
water bouget  
water boy  
water brash  
water breather  
water budget  
water buffalo  
water bug  
water butt  
water caltrop  
water cannon  
water carrier  
water channel  
water chestnut  
water chinquapin  
water clock  
water closet  
water color  
water conservation  
water cooler  
water crake  
water cress  
water crowfoot  
water cure  
water cycle  
water diviner  
water dog  
water down  
water dropwort  
water farmer  
water fern  
water fever  
water flag  
water flea  
water flow  
water fountain  
water foxtail  
water frame  
water frontage  
water furrow  
water gap  
water gas
water gate
water gauge
water gilder
water gilding
water glass
water god
water gods
water grass
water gum
water gun
water hair grass
water hammer
water hawthorn
water heater
water hemlock
water hen
water hole
water holly
water horehound
water hyacinth
water ice
water jacket
water jump
water kelpie
water leaf
water lemon
water lettuce
water level
water light
water lily
water lily tulip
water line
water locust
water loss
water main
water marigold
water meadow
water meadow grass
water meter
water milfoil
water mill
water mink
water mint
water moccasin
water mold
water motor
water nymph
water oak
water oat
water oats
water of ayr
water of crystallization
water of hydration
water of life
water off a duck's back
water oleander
water opossum
water ouzel
water oven
water ox
water paint
water parting
water pepper
water pimpernel
water pipe
water pipit
water pistol
water plantain
water platter
water plug
water poa
water pocket
water polo
water poppy
water power
water pox
water pump
water pumper
water purslane
water rail
water rat
water reed
water rice
water right
water sapphire
water scorpion
water set
water shield
water shrew
water skater
water ski
water sky
water slide
water smoke
water snail
water snake
water snowflake
water softener
water soldier
water sound
water spaniel
water spider
water spirit
water spot
water sprite
water sprout
water starwort
water strider
water supply
water system
water table
water tare grass
water target
water telescope
water thrush
water ton
water tortoise
water torture
water tower
water trap
water travel
water treatment
water vapor
water vapour
water vole
water wagon
water wagtail
water wave
water wheel
water willow
water wings
water witch
water witcher
water witching
water works
water-bag
water-bailage
water-bailiff
water-base paint
water-bath
water-bearer
water-bearing
water-beaten
water-bed
water-bind
water-borne
water-bound
water-brain
water-break
water-breathing
water-broken
water-buck
water-butt
water-can
water-carriage
water-carrier
water-cart
water-caster
water-clock
water-closet
water-color
water-colored
water-colorist
water-colour
water-commanding
water-consolidated
water-cool
water-cooled
water-cress
water-cressy
water-cure
water-dog
water-drinker
water-drinking
water-drop
water-dwelling
water-engine
water-fast
water-fennel oil
water-finished
water-flood
water-flowing
water-free
water-front
water-fronter
water-furrow
water-gall
water-galled
water-gas
water-gas tar
water-gate
water-gild
water-girt
water-glass
water-glass painting
water-gray
water-growing
water-gruel
water-gruellish
water-hammer
water-hen
water-hole
water-horse
water-ice
water-inch
water-jacket
water-jacketing
water-jelly
water-jet
water-laid
water-lane
water-level
water-lily
water-lily family
water-lily tree
water-line
water-line model
water-lined
water-living
water-logged
water-loving
water-mark
water-meadow
water-measure
water-melon
water-milfoil family
water-mill
water-mint
water-nut family
water-nymph
water-packed
water-pipe
water-plantain family
water-pot
water-power engineering
water-pumping
water-purpie
water-quenched
water-rat
water-repellant
water-repellent
water-resistant
water-ret
water-rolled
water-rot
water-seal
water-sealed
water-season
water-shield family
water-shot
water-sick
water-ski
water-skied
water-skiing
water-slaked lime
water-smoke
water-soak
water-soaked
water-soluble
water-souchy
water-spout
water-spring
water-standing
water-starwort family
water-stream
water-struck
water-supply
water-supply engineer
water-supply engineering
water-sweet
water-table
water-tube boiler
water-vascular
water-vascular system
water-wagtail
water-washed
water-wave
water-waved
water-waving
water-way
water-weed
water-wheel
water-white
water-witch
waterborne infection
watered fabric
watered silk
watered steel
wave mechanics
wave molding
wave motion
wave number
wave phenomenon
wave scroll
wave surface
wave system
wave telegraphy
wave telephony
wave the arms
wave the bloody shirt
wave the hand
wave the white flag
wave theory
wave top
wave train
wave trap
wave wheel
wave winding
wave-cut
wave-cut platform
wave-encircled
wave-form
wave-form theory
wave-green
wave-haired
wave-hollowed
wave-lashed
wave-laved
wave-like
wave-line
wave-making
wave-moist
wavering flame
wavering light
waving of the bloody shirt
wavy-coated
wavy-edged
wavy-grained
wavy-haired
wavy-leaved
wavy-toothed
waw consecutive
waw converasive
waw-waw
wax and wane
wax bean
wax bleacher
wax brown
wax candle
wax cloth
wax cluster
wax end
wax figure
wax flower
wax gland
wax gourd
wax insect
wax jack
wax light
wax modeler
wax modeling
wax moth
wax myrtle
wax palm
wax paper
wax pink
wax privet
wax tablet
wax tree
wax worm
wax-bearing
wax-billed
wax-chandler
wax-coated
wax-colored
wax-composed
wax-covered
wax-ended
wax-erected
wax-extracting
wax-featured
wax-finished
wax-forming
wax-headed
wax-jointed
wax-lighted
wax-polished
wax-producing
wax-red
wax-rubbed
wax-secreting
wax-shot
wax-stitched
wax-tipped
wax-topped
wax-white
wax-yellow
waxed paper
waxed tablet
waxing crescent moon
waxing moon
way back
way baggage
way beam
way bennet
way bent
way car
way chain
way enough
way freight
way in
way of dealing
way of escape
way of holding yourself
way of life
way of looking at things
way of putting
way of saying
way of seeing
way of speaking
way of the cross
way of thinking
way of understanding
way of walking
way off
way out
way passenger
way point
way shaft
way station
way thistle
way ticket
way train
way wire
way-beguiling
way-bill
way-clearing
way-down
way-god
way-haunting
way-off
way-out
way-up
way-weary
way-wise
way-wiser
way-worn
wayfaring tree
wayfaring-tree
waygoing crop
wayleave rent
ways and means
ways of the fathers
wayside cross
we happy few
we’ll see you
we-all
we-group
we-ship
we-uns
weak accumulation poi
weak as a baby
weak as a chicken
weak as a child
weak as a drink of water
weak as a kitten
weak as a mouse
weak as a rained-on bee
weak as milk and water
weak as water
weak derived set
weak ego
weak ending
weak in the upper story
weak interaction
weak knees
weak link
weak market
weak personality
weak point
weak side
weak sister
weak soul
weak stress
weak tool
weak will
weak-ankled
weak-armed
weak-backed
weak-bodied
weak-built
weak-chested
weak-chined
weak-chinned
weak-eyed
weak-fibered
weak-headed
weak-headedly
weak-headedness
weak-hinged
weak-jawed
weak-kneed
weak-kneedly
weak-kneedness
weak-legged
weak-limbed
weak-lunged
weak-minded
weak-mindedly
weak-mindedness
weak-nerved
weak-pated
weak-spirited
weak-spiritedly
weak-spiritedness
weak-stemmed
weak-stomached
weak-toned
weak-voiced
weak-willed
weak-winged
weakengrow weak
weaker sex
weaker vessel
weakness comparisons
weakness of the flesh
wealth tax
wealth-encumbered
wealth-fraught
wealth-getting
wealth-yielding
wealthy man
wean from
wean your thoughts from
wean yourself from
weaning brash
weapons of mass destruction
wear a hairshirt
wear a mask
wear an earnest frown
wear and tear
wear away
wear back
wear blinkers
wear down
wear horns
wear iron
wear land
wear limit gauge
wear mourning
wear off
wear on
wear out
wear out your welcome
wear ragged
wear sackcloth
wear sackcloth and ashes
wear ship
wear short
wear the cloth
wear the crown
wear the horn
wear the look of
wear the pants
wear the uniform
wear thin
wear upon
wear upon one
wear well
wear you down
wear your heart on your sleeve
wear your heart upon your sleeve
wear-out
wearer of the cap and bells
weariness of life
wearing a hairshirt
wearing a sackcloth
wearing a sackcloth and ashes
wearing apparel
wearing arms
wearing away
wearing course
wearing down
wearisome sameness
wearisome trip
weary for
weary of life
weary to death
weary unto death
weary waste
weary-foot
weary-footed
weary-laden
weary-looking
weary-winged
weary-worn
weasel cat
weasel coot
weasel lemur
weasel out
weasel spider
weasel word
weasel words
weasel-faced
weasel-worded
weather anchor
weather back
weather balloon
weather bow
weather box
weather breeder
weather bureau
weather cast
weather caster
weather chart
weather cloth
weather deck
weather eye
weather forecast
weather forecaster
weather front
weather gall
weather gauge
weather helm
weather house
weather instrument
weather joint
weather map
weather out
weather prophet
weather rail
weather reconnaissance
weather reconnaissance plane
weather report
weather roll
weather satellite
weather science
weather scientist
weather sheet
weather ship
weather side
weather signal
weather slating
weather stain
weather station
weather strip
weather stripping
weather tack
weather the storm
weather tide
weather vane
weather wheel
weather wisdom
weather-battered
weather-beaten
weather-bitt
weather-bitten
weather-bound
weather-breeding
weather-driven
weather-eaten
weather-eye
weather-fagged
weather-fast
weather-fend
weather-free
weather-glass
weather-going tide
weather-guard
weather-hardened
weather-headed
weather-reporting network
weather-scarred
weather-slated
weather-stayed
weather-strip
weather-striped
weather-stripping
weather-tanned
weather-wasted
weather-wise
weatherboard house
weathered joint
weathered oak
weave bead
weave peace between
weave your way
weaver finch
weaver shell
weaver's hitch
weaver's knot
weazen-faced
web foot
web frame
web glazing
web lead
web maker
web member
web of intrigue
web perfecting press
web press
web printing
web saw
web spinner
web stiffener
web wheel
web-beam
web-fed
web-fed press
web-fingered
web-foot
web-footed
web-footedness
web-glazed
web-perfecting
web-toed
web-winged
web-worked
webbing moth
weber turn
wedded bliss
wedded pair
wedded state
wedded status
wedded to
wedded to poverty
wedded wife
wedding anniversary
wedding attendant
wedding breakfast
wedding cake
wedding canopy
wedding chest
wedding clothes
wedding day
wedding dinner
wedding flower
wedding gown
wedding guest
wedding journey
wedding knot
wedding march
wedding party
wedding ring
wedding sheet
wedding song
wedding veil
wedge bone
wedge character
wedge gauge
wedge gearing
wedge heel
wedge in
wedge-bearing
wedge-billed
wedge-form
wedge-formed
wedge-shaped
wedge-tailed
wedge-tailed dove
wedge-tailed eagle
wedge-tailed gull
wedge-tailed shearwater
wedged-tailed
wedging crib
wee bit
wee doch-an-dorrach
wee folk
wee tot
wee-wee
weed killer
weed out
weed tree
weed-choked
weed-cutting
weed-entwined
weed-fringed
weed-grown
weighted down
weighting down
weir basin
weir box
weird sisters
weird-fixed
weird-looking
weird-set
weiss beer
welch plug
welcome as the roses in May
welcome mat
welcome release
welcome wagon
weld metal
welder's mask
welding blowpipe
welding engineer
welding powder
welding rod
welding torch
welfare aid
welfare capitalism
welfare cases
welfare client
welfare clients
welfare families
welfare payments
welfare program
welfare rolls
welfare state
welfare stater
welfare statism
welfare statist
welfare work
welfare worker
welkin eye
welkin-high
well I never
well I never!
well afford
well and good
well boat
well borer
well casing
well cress
well decker
well done
well driller
well drilling
well enough
well fern
well house
well in
well in hand
well log
well met
well off
well out
well out of
well over
well provided for
well rig
well room
well shrimp
well sinker
well smack
well staircase
well sweep
well to do in the world
well to live
well to pass
well tomb
well trap
well turned-out
well up on
well vessel
well water
well worship
well worth the money
well-able
well-abolished
well-abounding
well-absorbed
well-abused
well-accented
well-accentuated
well-accepted
well-accommodated
well-accompanied
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well-accumulated
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well-achieved
well-acknowledged
well-acquainted
well-acquired
well-acted
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well-addressed
well-adjusted
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well-barbered
well-bargained
well-base rim
well-based
well-bathed
well-batted
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well-becoming
well-bedded
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well-begun
well-behated
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well-beseeingly
well-bespooken
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well-bestowed
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well-circumstanced
well-civilized
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well-cleared
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well-cloistered
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called
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well-tenanted
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well-thumbed
well-tied
well-tilled
well-timbered
well-timed
well-timed opportunity
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well-toothed
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well-trained
well-translated
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well-travelled
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well-tried
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well-trod
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well-trunked
well-trussed
well-trusted
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well-tutored
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well-typed
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well-understood
well-uniformed
well-united
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well-urged
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well-utilized
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well-varnished
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well-ventured
well-verified
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well-worn
well-worn groove
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well-wreathed
well-written
well-wrought
well-yoked
wellington boot
welsh corgi
welsh harp
welsh hook
welsh rabbit
welsh rarebit
welsh springer spaniel
welsh terrier
welt seam
welter in your own blood
welter weight
wen-li
wend your way
were it not
were it not that
were-
were-animal
were-animals
were-ass
west Greenland current
west by north
west by south
west coast fir
west coast hemlock
west country
west end
west germanic
west highland
west india
west indian
west indies
west saxon
west wind
west wind drift
west-by
west-central
west-ender
west-endism
west-endy
west-faced
west-facing
west-going
west-india man
west-north-west
west-northwest
west-northwesterly
west-northwestward
west-south-west
west-southwest
west-southwesterly
west-southwestward
west-southwestwardly
west-turning
west-winded
west-windy
western diamondback rattlesnake
western frame
western hemisphere
western hemlock
western juniper
western mountain ash
western omelet
western paper birch
western red cedar
western roll
western sandwich
western swing
western tanager
western wool
western yellow pine
westphalian ham
westward-looking
wet behind the ears
wet blanket
wet bulb
wet cell
wet chinook
wet cleaner
wet compass
wet contact
wet cooper
wet dock
wet down
wet dream
wet fly
wet look
wet moon
wet nurse
wet pack
wet pleurisy
wet puddling
wet rot
wet season
wet snow
wet squib
wet strength
wet suit
wet to the skin
wet wash
wet weather
wet weathers
wet with sweat
wet your whistle
wet-air
wet-air pump
wet-and-dry-bulb thermometer
wet-blanket
wet-blanketing
wet-bulb
wet-bulb thermometer
wet-cell
wet-cheeked
wet-clean
wet-eyed
wet-footed
wet-lipped
wet-my-lip
wet-nurse
wet-nursed
wet-nursing
wet-pipe
wet-pipe system
wet-plate
wet-plate process
wet-process machine
wet-salt
wet-season
wet-shod
wet-worked
wether wool
wetlands conservation
wetness fraction
wetter-off
wetting agent
wetting down
wetting-out agent
wh-movement
whack down
whack off
whack up
whale barnacle
whale catcher
whale feed
whale fin
whale fisher
whale fisherman
whale fishery
whale fishing
whale food
whale iron
whale line
whale louse
whale of a difference
whale oil
whale shark
whale-backed
whale-built
whale-gig
whale-headed
whale-hunting
whale-mouthed
whale-tailed
whalebone tree
whalebone whale
whaling fleet
whaling gun
whaling master
whaling port
whaling rocket
whare-kura
whare-puni
whare-wananga
wharf boat
wharf dues
wharf duty
wharf end
wharf fee
wharf fish
wharf hand
wharf laborer
wharf lumper
wharf monkey
wharf owner
wharf rat
wharf spike
wharf worker
what a life
what are the odds
what bodes
what boots it
what can be done
what can be seen
what can never be
what cannot be
what cannot happen
what do I care
what will be will be
what you are about
what you are doing
what you are responsible for
what you are worth
what you can call your own
what you can do
what you have coming
what you have earned
what you have to your name
what you may fairly call
what you may fitly call
what you may properly call
what you may well call
what you merit
what you will
what's happening
what's in
what's in it for one
what's it to you
what's its name
what's the diff
what's the difference
what's the odds
what's what
what's-her-name
what's-his-face
what's-his-name
what's-its-name
what-d'ye-call-'em
what-d'ye-call-it
what-d'you-call-it
what-do-you-call-it
what-ever
what-for
what-is-it
what-like
what-you-call-it
what-you-may call-it
what-you-may--call-it
what-you-may-call-'em
whatever comes
whatever may happen
whatever the cost
whats-her-name
whats-his-name
whats-it
whats-its-name
wheaf take-all
wheaf-head
wheat aphid
wheat aphid
wheat beetle
wheat belt
wheat berry
wheat bread
wheat bug
wheat bulb fly
wheat bulb worm
wheat cake
wheat chafer
wheat cutworm
wheat duck
wheat eel
wheat eelworm
wheat farmer
wheat field
wheat fly
wheat from the chaff
wheat gallfly
wheat germ
wheat grass
wheat jointworm
wheat louse
wheat maggot
wheat meal
wheat midge
wheat mildew
wheat mite
wheat mosaic
wheat moth
wheat pest
wheat pit
wheat plant louse
wheat rosette
wheat rust
wheat sawfly
wheat scab
wheat seed
wheat sheaf
wheat smut
wheat stem
wheat stem rust
wheat thief
wheat thrips
wheat weevil
wheat weigher
wheat-blossoming
wheat-colored
wheat-fed
wheat-growing
wheat-head army worm
wheat-hid
wheat-producing
wheat-raising
wheat-rich
wheat-stem maggot
wheat-stem sawfly
wheat-straw
wheatear cockle
wheatsel bird
wheatstone bridge
wheel about
wheel and axle
wheel and deal
wheel animal
wheel animalcule
wheel around
wheel back
wheel barometer
wheel base
wheel bearer
wheel bug
wheel case
wheel chain
wheel chair
wheel colter
wheel control
wheel cowlings
wheel cross
wheel cultivator
wheel excavator
wheel fitter
wheel governor
wheel hoe
wheel horse
wheel lathe
wheel load
wheel load weigher
wheel lock
wheel maker
wheel man
wheel map
wheel money
wheel of chance
wheel of fortune
wheel ore
wheel organ
wheel parts
wheel pen
wheel pit
wheel plate
wheel plow
wheel rod
wheel rope
wheel scraper
wheel static
wheel stitch
wheel tracery
wheel trap
wheel tree
wheel trolley
wheel welder
wheel window
wheel-backed
wheel-barrower
wheel-broad
wheel-cut
wheel-cutting
wheel-footed
wheel-going
wheel-made
wheel-marked
wheel-mounted
wheel-resembling
wheel-shaped
wheel-smashed
wheel-spun
wheel-supported
wheel-track
wheel-turned
wheel-turning
wheel-worn
wheelbarrow race
wheeler and dealer
wheeler-dealer
wheeling and dealing
wheels within wheels
whelk tingle
whelk-shaped
when all is said and done
when as
when day is done
when hell freezes over
when in Rome do as the Romans do
when issued
when it is handy
when the chips are down
when the mood strikes
when the spirit moves
when you get around to it
when you have a minute to spare
when you have the time
when your ship comes in
when-issued
whenever you like
whenever you wish
where it's at
where the earth meets the sky
where the shoe pinches
where the sun beats
where the sun rises
where you are
where you live
where you reside
where you sit
where you stand
wherefore, the
wherever it may be
wherever you look
wherever you turn
whet slate
whet the appetite
whet the knife
whet the sword
whet your interest
whether or no
whether you will or not
whetstone slate
whetstone-shaped
whettle-bone
whew duck
whey bird
whey butter
whey cure
whey whig
whey-bearded
whey-blooded
whey-brained
whey-colored
whey-face
whey-faced
whi-Zbang
which is Not we
which is in us and all around us
which see
which way the wind blows
whidah bird
whidah finch
whiff of grapeshot
whiffle ball
while airborne
while away
while away the time
while life endures
while on the subject
while you draw breath
whim berry
whim gin
whim-proof
whim-wham
whim-whams
whin sparrow
whin-wrack
whing-ding
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whip graft
whip graftage
whip grass
whip hand
whip handle
whip hoist
whip horse
whip in
whip into shape
whip line
whip maker
whip off
whip on
whip purchase
whip ray
whip rod
whip roll
whip row
whip scorpion
whip snake
whip stall
whip thread
whip top
whip up
whip yarn
whip yourself
whip-
whip-bearing
whip-corrected
whip-cracker
whip-cracking
whip-ended
whip-grafting
whip-hand
whip-jack
whip-lash
whip-marked
whip-poor-will
whip-round
whip-saw
whip-shaped
whip-stick
whip-stitch
whip-tailed
whip-tom-kelly
whip-tongue
whip-up
whip-wielding
whipbelly vengeance
whipcord willow
whiplash injury
whipped cream
whipped up
whipper-in
whipper-snapper
whippers-in
whippet tank
whipping boy
whipping cream
whipping girl
whipping post
whipping top
whipping up
whipping-boy
whipping-snapping
whipping-up
whipsy-derry
whiptail shark
whirl drill
whirl gate
whirl like a dervish
whirl the mind
whirl-
whirl-blast
whirl-shaped
whirligig beetle
whirligig mullet
whirligig of time
whirling dervish
whirling table
whirlpool bath
whirlpool nebula
whirlwinds of tempestuous fire
whirly-
whisk broom
whisk tail
whisk-tailed
whisker boom
whisker jumper
whisker pole
whiskey jack
whiskey smash
whiskey sour
whisky cherry
whisky drinker
whisky jack
whisky john
whisky liver
whisky mac
whisky poker
whisky sour
whisky-drinking
whisky-frisky
whisky-jack
whisky-sodden
whisper glide
whisper glottis
whisper in the ear
whisper sweet nothings
whisper-soft
whispered about
whispering campaign
whispering dome
whispering gallery
whispering office
whispering pectoriloquy
whispering voice
whist drive
whistle at
whistle duck
whistle for
whistle punk
whistle stop
whistle-blower
whistle-pig
whistle-stop
whistle-stop campaign
whistle-stopper
whistle-stopping
whistlebelly vengeance
whistling buoy
whistling duck
whistling jar
whistling swan
whit sunday
white Leghorn
white Mariposa
white Orpington
white Plymouth Rock
white Wyandotte
white acid
white admiral
white alert
white alkali
white ant
white area
white arsenic
white as a lily
white as a sheet
white as snow
white ash
white ash herb
white bass
white bay
white bear
white beet
white belt
white birch
white blood cell
white blood corpuscle
white book
white boy
white bread
white bronze
white bryony
white cake
white campion
white cast iron
white cedar
white chip
white clover
white coal
white comparisons
white cooper
white corpuscle
white crab
white crappie
white cross
white currant
white daisy
white damp
white dew
white dutch clover
white dwarf
white dwarf star
white eardrop
white elephant
white elephant sale
white ensign
white feather
white flag
white flax
white flint
white fox
white friar
white frost
white gas
white gasoline
white globe lily
white gold
white goldenrod
white goods
white gourd
white grape
white grease
white gum
white hairs
white hake
white heat
white hole
white hope
white horde
white horehound
white horse
white horses
white house
white hunter
white iron
white iron pyrites
white lead
white lead ore
white leather
white leg
white lie
white light
white lightning
white lime
white line
white liquor
white list
white liver
white livered
white lotus
white lupine
white magic
white mahogany
white man
white man's burden
white marlin
white matter
white meat
white melilot
white metal
white moss
white mulberry
white mule
white mustard
white noise
white oak
white oil
white paper
white paternoster
white pepper
white perch
white pine
white plague
white poplar
white potato
white pottery
white power
white primary
white pudding
white race
white rainbow
white rat
white room
white rose
white rose mallow
white rot
white russian
white rust
white sage
white sale
white salmon
white sandalwood
white sapote
white sapphire
white sauce
white sea bass
white shark
white sidewall tire
white slave
white slaver
white slavery
white snakeroot
white sour
white space
white spirit
white spiritual
white spruce
white squall
white staff
white stork
white stuff
white sturgeon
white supremacist
white supremacy
white swamp azalea
white tassel flower
white tie
white tie and tails
white titi
white turnip
white-clothed
white-coated
white-collar
white-collar intellectual
white-collar thief
white-collar worker
white-colored
white-cotton
white-cotton tree
white-crested
white-cross
white-cross diatom
white-crossed
white-crowned
white-crowned sparrow
white-domed
white-dotted
white-dough
white-ear
white-eared
white-eye
white-eyed
white-eyed vireo
white-eyelid
white-eyelid monkey
white-eyes
white-faced
white-faced hornet
white-favored
white-feathered
white-featherism
white-felled
white-flanneled
white-flecked
white-fleshed
white-flower
white-flowered
white-flowing
white-foot
white-footed
white-footed mouse
white-frilled
white-fringed
white-frocked
white-fronted
white-fronted goose
white-fruited
white-girdled
white-pickle mosaic
white-pine
white-pine blister rust
white-pine rust
white-pine weevil
white-piped
white-plumed
white-rag
white-railed
white-rayed
white-red
white-ribbed
white-ribboned
white-ribboner
white-ringed
white-robed
white-roofed
white-ruffled
white-rumped
white-russet
white-salted
white-satin
white-set
white-sewing
white-shafted
white-sheeted
white-shouldered
white-sided
white-skin
white-skinned
white-slaver
white-slaving
white-sleeved
white-spored
white-spotted
white-stemmed
white-stoled
white-strawed
white-tail
white-tailed
white-tailed deer
white-tailed kit
white-tailed kite
white-tailed sea eagle
white-thighed
white-throated
white-throated sparrow
white-tinned
white-tipped
white-tomentose
white-tongued
white-tooth
white-toothed
white-topped
white-tufted
white-tusked
white-uniformed
white-veiled
white-veined
white-vented
white-waistcoated
white-walled
white-wanded
white-water
white-waving
white-way
white-whiskered
white-wig
white-wigged
white-winged
white-winged coot
white-winged dove
white-winged scoter
white-woolly
white-wristed
white-zoned
whitebark pine
whited sepulcher
whited sepulchre
whitening stone
whitetail deer
whitetailed deer
whitewall tire
whitewash job
whitewood bark
whiting bottle
whiting box
whiting brush
whiting can
whiting dabber
whiting filler
whiting furnace
whiting kit
whiting loader
whiting maker
whiting mill
whiting packer
whiting paste
whiting pollack
whiting pout
whiting powder
whiting sponge
whiting time
whiting tin
whitish-blue
whitish-brown
whitish-cream
whitish-flowered
whitish-green
whitish-lavender
whitish-red
whitish-tailed
whitish-yellow
whitley council
whitlow grass
whitlowwort family
whitten tree
whitty-tree
whity-brown
whity-gray
whity-green
whity-yellow
whiz about
whiz kid
whiz off
whiz-bang
whizz-bang
whizzling stick
who cares
who feel great truths
who knows
who would have thought it
who's who
who-does-what
who-whoop
whole amount
whole attention
whole ball of wax
whole bit
whole blood
whole brother
whole bunch
whole caboodle
whole deal
whole gale
whole hog
whole kit and caboodle
whole kit and kaboodle
whole life insurance
whole megillah
whole mess
whole milk
whole note
whole number
whole offering
whole people
whole picture
whole rest
whole schmear
whole shebang
whole shooting match
whole show
whole shtick
whole slew
whole step
whole story, the
whole time
whole tone
whole wheat
whole wheat bread
whole wheat flour
whole wide world
whole works
whole-and-half
whole-and-half compass
whole-backed
whole-bodied
whole-bound
whole-cloth
whole-colored
whole-eared
whole-eyed
whole-feathered
whole-footed
whole-headed
whole-hearted
whole-hog
whole-hogger
whole-hoofed
whole-leaved
whole-length
whole-minded
whole-mouthed
whole-or-none
whole-sail
whole-seas
whole-skinned
whole-souled
whole-souledly
whole-souledness
whole-spirited
whole-step
whole-timer
whole-tone scale
whole-wheat
whole-witted
wholesale dealer
wholesale house
wholesale murder
wholesale price
whomp up
whoop and a holler
whoop it up
whoop it up about
whoop-de-do
whoop-de-doo
whoop-de-dos
whoop-up
whooppee cup
whooper swan
whooping cough
whooping crane
whooping-cough
whore's bird
whorl foot
why yes
why-not
whydah bird
wi-wi
wibble-wabble
wibble-wobble
wicked imitation
wicked, the
wicked-acting
wicked-eyed
wicked-looking
wicked-minded
wicked-speaking
wicked-tongued
wicker basket
wicker-woven
wicket dam
wicket door
wicket gate
wicket maiden
within pear tree
wide apart
wide as a church door
wide awake
wide away
wide berth
wide gauge
wide knowledge
wide margin
wide of the mark
wide open
wide place in the road
wide ration
wide reading
wide world
wide-a-wake
wide-abounding
wide-accepted
wide-angle
wide-angle lens
wide-arched
wide-armed
wide-aware
wide-aware hat
wide-awakeness
wide-banked
wide-bottomed
wide-branched
wide-branching
wide-breasted
wide-brimmed
wide-cast
wide-chapped
wide-circling
wide-climbing
wide-consuming
wide-crested
wide-distant
wide-doored
wide-eared
wide-echoing
wide-elbowed
wide-expanded
wide-expanding
wide-extended
wide-extending
wide-eyed
wide-faced
wide-flung
wide-framed
wide-gaping
wide-gated
wide-girdled
wide-handed
wide-hipped
wide-honored
wide-imperial
wide-jointed
wide-kneed
wide-lamented
wide-leafed
wide-leaved
wide-lipped
wide-met
wide-minded
wide-mindedness
wide-mouthed
wide-necked
wide-nosed
wide-open
wide-open spaces
wide-open speed
wide-opened
wide-openly
wide-openness
wide-palmed
wide-patched
wide-permitted
wide-petaled
wide-pledged
wide-ranging
wide-reaching
wide-realmed
wide-resounding
wide-ribbed
wide-rimmed
wide-rolling
wide-roving
wide-row
wide-said
wide-sanctioned
wide-screen
wide-seen
wide-set
wide-shaped
wide-shown
wide-skirted
wide-sleeved
wide-sold
wide-soled
wide-sought
wide-spaced
wide-spanned
wide-spread
wide-spreaded
wide-spreaded
wide-spreadening
wide-straddling
wide-streeted
wide-stretched
wide-stretching
wide-throated
wide-toed
wide-toothed
wide-tracked
wide-veined
wide-wasting
wide-watered
wide-wayed
wide-where
wide-winding
wide-winged
wide-yawning
widely apart
widely known
widely read
widen the distance
widest dissemination
widgeon coot
widgeon grass
widow bird
widow duck
widow finch
widow fish
widow flower
widow lady
widow monkey
widow right
widow woman
widow's benefit
widow's cruse
widow's dower
widow's mite
widow's peak
widow's walk
widow's weeds
widow's-cross
widow-bench
widow-bird
widow-maker
widow-wail
widow-wail family
wie geht's
wield authority
wield the baton
wield the scepter
wield the sword
wiener roast
wiener schnitzel
wienie roast
wife in all but name
wife in name only
wife of your bosom
wife swapping
wife-awed
wife-beating
wife-bound
wife-hunting
wife-ridden
wife-to-be
wife-worn
wig block
wig sumac
wig tree
wig-wag
wiggen tree
wiggle nail
wiggle out of
wiggle the finger at
wiggle-tail
wiggle-tail cultivator
wiggle-waggle
wiggle-wobble
wiggly-waggly
wigwag flag
wigwag signal
wilcolored flowers
wild West
wild lettuce
wild lily-of-the-valley
wild madder
wild man
wild marjoram
wild mulberry
wild mustard
wild oat
wild oats
wild oleander
wild oleaster
wild olive
wild orange
wild ox
wild pansy
wild parsley
wild parsnip
wild passion flower
wild pennyroyal
wild pink
wild pitch
wild potato
wild pumpkin
wild radish
wild rice
wild rose
wild rosemary
wild rubber
wild rye
wild sage
wild sarsaparilla
wild senna
wild service tree
wild sheep
wild shot
wild silk
wild spikenard
wild sunflower
wild sweet pea
wild sweet potato
wild sweet william
wild thyme
wild to
wild track
wild type
wild vanilla
wild west
wild wormwood
wild-acting
wild-aimed
wild-and-woolly
wild-ass
wild-billow ing
wild-blooded
wild-booming
wild-born
wild-brained
wild-bred
wild-chosen
wild-eyed
wild-fire
wild-flying
wild-fought
wild-fowl
wild-fowler
wild-fowling
wild-goose
wild-goose chase
wild-goose plum
wild-grown
wild-haired
wild-headed
wild-headedness
wild-looking
wild-made
wild-notioned
wild-oat
wild-oat kicker
wild-phrased
wild-spirited
wild-staring
wild-warbling
wild-warring
wild-williams
wild-winged
wild-witted
wild-woven
wildcat bank
wildcat strike
wildcat well
wilderness area
wilderness preserve
wildest dream
wildest dreams
wildlife conservation
wildlife preserve
wile away
will and bequeath
will and pleasure
will and will not
will contest
will for power
will of Heaven
will of iron
will of your own
will power
will to
will to believe
will to power
will turn
will wonders never cease
will you
will-call
will-commanding
will-fraught
will-less
will-lessly
will-lessness
will-o’-the-wisp
will-o-the-wisp
will-strong
will-willet
will-with-the-wisp
will-worship
will-worshiper
willful disobedience
willful misconception
william tell
willie gow
willie hawkie
willie wagtail
willie wicket
willie-waucht
willie-waught
willing ear
willing heart
willing humor
willing mind
willing or unwilling
willingness to believe
willo’-the-wispish
willo’-the-wispy
willow acacia
willow amsonia
willow-leaved
willow-leaved jasmine
willow-shaded
willow-skirted
willow-tree money
willow-tufted
willow-veiled
willow-wielder
willow-wood
willow-wort
willy wagtail
willy-mufty
willy-nilly
willy-waa
willy-wagtail
willy-waw
willy-wicket
willy-willies
willy-willy
wilt disease
wilting coefficient
wilting percentage
wilting point
wily device
win away
win back
win by a fluke
win by a neck
win easily
win freedom
win friends
win friends and influence people
win going away
win hands down
win in a canter
win in a walk
win in a waltz
win out
win over
win the affections of
win the battle
win the bays
win the day
win the laurels
win the love of
win the palm
win the prize
win the regard of
win the start
win through
win your heart
win your spurs
wince pit
wince pot
winch driver
wincing machine
wind and weather permitting
wind around your little finger
wind arrow
wind band
wind beam
wind belt
wind blast
wind box
wind brace
wind burn
wind catcher
wind chest
wind cloud
wind colic
wind component table
wind cone
wind contusion
wind cripple
wind cutter
wind direction
wind down
wind drift
wind dropsy
wind eddy
wind egg
wind engine
wind erosion
wind flapper
wind force
wind furnace
wind gap
wind gauge
wind god
wind gods
wind guard
wind gun
wind gust
wind harp
wind hawk
wind herb
wind house
wind in
wind in and out
wind indicator
wind instrument
wind load
wind machine
wind mantle
wind marker
wind motor
wind music
wind musician
wind part
wind plant
wind poppy
wind porch
wind power
wind propulsion
wind pump
wind resistance
wind ripple
wind rose
wind sail
wind scale
wind scoop
wind scorpion
wind shaft
wind shake
wind sheet
wind shelf
wind side
wind signal
wind slash
wind sleeve
wind sock
wind sound
wind sprint
wind stack
wind stacker
wind star
wind stop
wind sucking
wind supply
wind tee
wind the horn
wind throw
wind thrush
wind tie
wind trunk
wind tunnel
wind up
wind valley
wind vane
wind wheel
wind zone
wind-bag
wind-balanced
wind-balancing
wind-beaten
wind-bell
wind-bells
wind-blazing
wind-blown
wind-borne
wind-bound
wind-broken
wind-built
wind-changing
wind-chapped
wind-clipped
wind-cutter
wind-delayed
wind-dispersed
wind-dried
wind-driven
wind-egg
wind-equator
wind-exposed
wind-fanned
wind-fast
wind-fertilization
wind-fertilized
wind-flower
wind-flowing
wind-footed
wind-force
wind-gall
wind-god
wind-grass
wind-guage
wind-gun
wind-hungry
wind-instrument
wind-instrumental
wind-instrumentalist
wind-laid
wind-lashed
wind-making
wind-nodding
wind-obeying
wind-outspeeding
wind-parted
wind-pollinated
wind-pollination
wind-propelled
wind-puff
wind-puffed
wind-raising
wind-rent
wind-rode
wind-scattered
wind-screen
wind-shake
wind-shaken
wind-shift
wind-shift line
wind-speed indicator
wind-struck
wind-stuffed
wind-sucking
wind-swept
wind-swift
wind-swung
wind-taut
wind-toned
wind-up
wind-wandering
wind-waved
wind-waving
wind-whipped
wind-wing
wind-winged
wind-worn
windblown bob
winder rod
winder-on
windfall money
windfall profit
windflower gentian
winding engine
winding frame
winding number
winding pendant
winding sheet
winding staircase
winding stick
winding strip
winding tackle
winding-sheet
windlass bitt
windmill grass
windmill orchid
windmill palm
windmill pink
windmill plane
windmill plant
windmill tower
windmill-like
window back
window bar
window bay
window board
window bole
window box
window card
window case
window catch
window cleaner
window curtain
window decoration
window decorator
window display
window dresser
window dressing
window envelope
window fixture
window fly
window frame
window furniture
window gardening
window glass
window head
window lead
window martin
window mirror
window oyster
window rocket
window sash
window screen
window seat
window shade
window shell
window show
window shutter
window sill
window sole
window space
window stile
window stool
window stop
window swallow
window tax
window trim
window trimmer
window trimming
window work
window-breaking
window-broken
window-cleaning
window-dress
window-dresser
window-dressing
window-efficiency
window-efficiency ratio
window-opening
window-rattling
window-shop
window-shopper
window-shopping
window-smashing
window-ventilating
windowless monad
windpipe-slitting art
windscreen wiper
windshield wing
windshield wiper
windsor chair
windsor knot
windsor tie
windstorm insurance
windward ebb
windward flood
windward side
windward tide
windy-aisled
windy-blowing
windy-clear
windy-footed
windy-headed
windy-looking
windy-mouthed
windy-voiced
windy-worded
wine acid
wine and dine
wine apple
wine bag
wine bar
wine biscuit
wine black
wine bush
wine butt
wine card
wine cask
wine cellar
wine cooler
wine cooper
wine ferment
wine flask
wine fly
wine fountain
wine gallon
wine garden
wine grape
wine lees
wine maker
wine making
wine measure
wine merchant
wine palm
wine party
wine plant
wine press
wine presser
wine purple
wine red
wine seller
wine shop
wine steward
wine stone
wine table
wine taster
wine tester
wine thrush
wine tun
wine vault
wine vinegar
wine whey
wine yeast
wine yellow
wine-bright
wine-cask borer
wine-colored
wine-cooler
wine-crowned
wine-cup
wine-dark
wine-drabbed
wine-drinking
wine-driven
wine-drunken
wine-hardy
wine-heated
wine-house
wine-inspired
wine-laden
wine-merry
wine-press
wine-producing
wine-red
wine-selling
wine-shaken
wine-soaked
wine-stained
wine-stuffed
wine-swilling
wine-tinged
wine-wise
wine-yielding
wing and wing
wing axis
wing back formation
wing band
wing bar
wing bay
wing bearing
wing bit
wing bolt
wing bone
wing bow
wing car
wing case
wing cell
wing chair
wing clipper
wing clipping
wing collar
wing commander
wing compass
wing cover
wing covert
wing coverts
wing dam
wing deck
wing divider
wing dividers
wing drag
wing elm
wing feather
wing flap
wing flat
wing formation
wing game
wing gap
wing gudgeon
wing it
wing jam
wing load
wing loading
wing net
wing nut
wing out ballast
wing over
wing pad
wing passage
wing petal
wing plow
wing power
wing quill
wing radiator
wing rail
wing resistance
wing rib
wing root air intake
wing roots
wing sac
wing screw
wing sheath
wing shell
wing shooting
wing shot
wing skid
wing snail
wing stopper
wing tie
wing tip
wing top
wing tract
wing transom
wing truss
wing valve
wing wale
wing wall
wing your way
wing-borne
wing-broken
wing-case
wing-clipped
wing-ding
wing-footed
wing-hoofed
wing-leafed
wing-leaved
wing-limed
wing-loose
wing-maimed
wing-margined
wing-shaped
wing-slot
wing-swift
wing-tip
wing-tip flare
wing-tip float
wing-tipped
wing-wearily
wing-weariness
wing-weary
wing-wide
wingback formation
winged chair
winged elm
winged rocket
winged spindle tree
winged-footed
winged-heeled
winged-leaved
wink at
wink of sleep
winker braces
winking cartilage
winking muscle
winkle out
winkle-pickers
winner's circle
winning gallery
winning hazard
winning opening
winning post
winning streak
winning ways
winnow cloth
winnow out
winnow sheet
winnow the chaff from the wheat
winnow-corb
winnowed out
winnowing basket
winnowing fan
winnowing machine
winter aconite
winter annual
winter apple
winter barley
winter beer
winter blight
winter bonnet
winter brake
winter bud
winter bunting
winter cherry
winter clover
winter count
winter cress
winter crookneck
winter crop
winter daffodil
winter day
winter duck
winter egg
winter fallow
winter fat
winter fever
winter flounder
winter flower
winter garden
winter geranium
winter gillyflower
winter golf
winter grape
winter green
winter gull
winter hail
winter hawk
winter heath
winter hedge
winter heliotrope
winter hellebore
winter house
winter huckleberry
winter itch
winter jasmine
winter leaf
winter lettuce
winter melon
winter mew
winter midge
winter moth
winter oats
winter of your days
winter oil
winter pear
winter pink
winter plum
winter purslane
winter quarters
winter radish
winter rocket
winter rose
winter rye
winter savory
winter shad
winter sheldrake
winter skate
winter sleep
winter snipe
winter sol
winter solstice
winter spice
winter spore
winter sports
winter squash
winter strawberry
winter sucker
winter sunscald
winter sweet
winter teal
winter tire
winter vetch
winter wagtail
winter wheat
winter wind
winter wolfsbane
winter wren
winter yellowlegs
winter's bark
winter-beaten
winter-blasted
winter-blooming
winter-boding
winter-bound
winter-chilled
winter-clad
winter-damaged
winter-fattened
winter-fed
winter-felled
winter-flowering
winter-gladdening
winter-gray
winter-ground
winter-grown
winter-habited
winter-hardened
winter-hardy
winter-house
winter-kill
winter-long
winter-love
winter-loving
winter-made
winter-old
winter-proof
winter-proud
winter-pruned
winter-quarter
winter-reared
winter-rig
winter-ripening
winter-seeming
winter-shaken
winter-sown
winter-standing
winter-starved
winter-swollen
winter-thin
winter-verging
winter-visaged
winter-wasted
winter-withered
winter-worn
wintergreen barberry
wintergreen family
wintergreen oil
winterly weather
winterly wind
wipe away the tears
wipe away your tears
wipe break
wipe breaker
wipe joint
wipe off
wipe off old scores
wipe off the map
wipe out
wipe the floor with
wipe the slate clean
wipe the smile off your face
wipe up
wipe up the floor with
wipe-off
wiped away
wiped out
wiper shaft
wiper wheel
wiping contact
wiping out
wiping rod
wiping up
wire agency
wire basket
wire bender
wire bent
wire birch
wire bridge
wire brush
wire cartridge
wire chief
wire chisel
wire cloth
wire coat
wire communication
wire coverer
wire cutter
wire cutting
wire drawer
wire drawing
wire edge
wire entanglement
wire former
wire galvanizer
wire gauge
wire gauze
wire glass
wire grama
wire grass
wire grating
wire grub
wire gun
wire house
wire lath
wire line
wire ling
wire loop binding
wire mark
wire micrometer
wire money
wire nail
wire netting
wire nut
wire pack
wire plant
wire press
wire radio
wire recorder
wire recording
wire reducer
wire road
wire rod
wire roller
wire room
wire rope
wire ropeway
wire rush
wire saw
wire sculpture
wire service
wire sewer
wire side
wire silver
wire spooler
wire stem
wire stitch
wire stitcher
wire stitching
wire straightener
wire strander
wire tapper
wire tapping
wire tester
wire tightener
wire tinner
wire vine
wire walker
wire wave communication
wire weaver
wire welder
wire wheel
wire winder
wire wool
wire-bending
wire-blocking
wire-borne
wire-bound
wire-brushing
wire-caged
wire-cloth
wire-coiling
wire-crimping
wire-cut
wire-draw
wire-drawer
wire-drawn
wire-edged
wire-feed
wire-feeding
wire-flattening
wire-galvanizing
wire-gauge
wire-grass
wire-guarded
wire-haired
wire-haired pointing griffon
wire-haired terrier
wire-hung
wire-insulating
wire-measuring
wire-mended
wire-netted
wire-pointing
wire-pull
wire-puller
wire-pulling
wire-record
wire-rolling
wire-safed
wire-sewed
wire-sewn
wire-shafted
wire-spun
wire-stitched
wire-straightening
wire-stranding
wire-stretching
wire-stringed
wire-strung
wire-tailed
wire-testing
wire-tightening
wire-tinning
wire-toothed
wire-wheeled
wire-winding
wire-worker
wire-wound
wire-wound resistor
wire-wove
wire-woven
wired glass
wired radio
wired television
wired wireless
wirehaired pointing griffon
wirehaired terrier
wireless apparatus
wireless beacon
wireless circuit
wireless communication
wireless compass
wireless operator
wireless set
wireless telegraph
wireless telegrapher
wireless telegraphist
wireless telegraphy
wireless telephone
wireless telephony
wirewound resistor
wiring die
wiring machine
wiring press
wiring punch
wiry-brown
wiry-coated
wiry-haired
wiry-leaved
wiry-looking
wiry-stemmed
wiry-voiced
wisdom literature
wisdom tooth
wisdom-bred
wisdom-given
wisdom-giving
wisdom-led
wisdom-loving
wisdom-seasoned
wisdom-seeking
wisdom-teaching
wisdom-working
wise as Solomon
wise as a serpent
wise as an owl
wise beyond your years
wise crack
wise expression
wise fool
wise guy
wise in the ways of the world
wise in your generation
wise in your own conceit
wise man
wise man of Chelm
wise man of Gotham
wise old man
wise passiveness
wise saying
wise to
wise up
wise up to
wise-ass
wise-bold
wise-framed
wise-hardy
wise-headed
wise-heart
wise-judging
wise-lipped
wise-reflecting
wise-said
wise-spoken
wise-valiant
wise-worded
wiser head
wish for
wish fulfillment
wish fulfilment
wish on
wish to
wish to goodness
wish upon
wish very much
wish well
wish you joy
wish you luck
wish-bringer
wish-fulfilling
wish-fulfillment
wish-fulfillment fantasy
wish-giver
wish-maiden
wish-wash
wish-washy
wishbone bush
wishbone gaff
wishbone rig
wished-for
wishful belief
wishful thinker
wishful thinking
wishing bone
wishing cap
wishing stone
wishing well
wishy-washily
wishy-washiness
wishy-washy
wisp of smoke
wisteria blue
wisteria violet
wistful eye
wistful-eyed
wit tooth
wit's end
wit-abused
witch mania
witch mark
witch master
witch meal
witch moth
witch of Agnesi
witch of Endor
witch sabbath
witch stick
witch stitch
witch tree
witch's mark
witch-charmed
witch-doctor
witch(elm
witch-finder
witch-finding
witch-hazel family
witch-held
witch-hunt
witch-hunter
witch-hunting
witch-ridden
witch-stricken
witch-struck
witch-woman
witches' Sabbath
witches' chorus
witches' coven
witches' meeting
witches' sabbath
witches'-besom
witches'-broom
witchetty grub
witching hour
witching hour of the night
witching stick
with a bad grace
with a bellyful
with a bump for
with a catch to it
with a cheerful heart
with a clear conscience
with a collar on
with a difference
with a firm hand
with a flair
with a free hand
with a good grace
with a grain of salt
with a guilty conscience
with a handful of thumbs
with a head on
with a heavy hand
with a heavy heart
with a high hand
with a joker to it
with a kick
with a kicker to it
with a liking for
with a long face
with a loud voice
with a memory like a sieve
with a mind like a sieve
with a new to
with a nose for
with a poker face
with a reservation
with a right to
with a rush
with a skinful
with a sneer
with a snootful
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a tight hand
with a touch of genius
with a vengeance
with a view to
with a weather eye open
with a whole skin
with a whoop and a hurrah
with a will
with a yellow streak
with abandon
with advantage
with affection
with agonizing slowness
with alacrity
with all due respect for
with all due respect to
with all haste
with all my heart
with all respect
with all speed
with all your heart
with all your love
with all your might
with an ear for
with an ear for music
with an exception
with an eye for
with an eye to
with an ill grace
with an interval
with an iron hand
with an unsparing hand
with arms akimbo
with attention
with authority
with bad grace
with bad intent
with bated breath
with bats in the belfry
with beat of drum
with beating heart
with bedroom eyes
with bells on
with both eyes closed
with both feet on the ground
with both hands
with breathless expectation
with brimming eyes
with care
with caution
with chattering teeth
with child
with clarity
with clean hands
with confidence
with constancy
with consummate skill
with contempt
with crossed bayonets
with crow's feet
with crystal clarity
with curling lip
with deliberation
with difficulty
with dignity
with dispatch
with distinction
with downcast eyes
with dragging feet
with dry eyes
with due deference
with due respect
with ears pricked up
with ears strained
with ease
with effort
with elan
with emphasis
with enough of
with enthusiasm
with everything against one
with everything against you
with everything that is in one
with everything that is in you
with exactitude
with eyes strained
with eyes suffused
with faith
with faltering steps
with fear and trembling
with feeling
with finesse
with flourish of trumpet
with flying colors
with folded hands
with foresight
with forethought
with full intent
with gaping mouth
with genius
with giant strides
with glistening eyes
with good cheer
with good faith
with good grace
with good right
with good will
with great care
with great haste
with great nicety
with gusto
with half a mind to
with halting steps
with haste
with head erect
with head held high
with heart beating high
with heart going pitapat
with heart going pitter-patter
with heart in mouth
with honor
with impunity
with indifference
with intent
with intent to deceive
with interest
with intervals
with it
with joined hands
with leaping heart
with life and spirit
with love
with low resistance
with malice aforethought
with malice prepense
with many a flirt and flutter
with many others
with might and main
with much ado
with muscles tense
with news value
with no heart
with no nonsense
with no stomach
with no time to spare
with nose in air
with nose turned up
with nothing inside
with nothing on
with one accord
with one another
with one consent
with one foot in the grave
with one voice
with one wild yell
with open arms
with open eyes
with open hands
with over-measure
with overflowing eyes
with pep
with permission
with pleasure
with precision
with premeditation
with pride
with purpose
with qualifications
with rapid strides
with rapt attention
with reason
with reference to
with regard to
with relation to
with relish
with reservations
with resignation
with respect to
with right good will
with safety
with sails spread
with satisfaction
with set jaw
with skill
with some allowance
with speed
with steerageway
with sullen mouth
with swimming eyes
with taste
with tearful eyes
with tears in eyes
with tears in your eyes
with telling effect
with that
with the Lord
with the addition of
with the assistance of
with the beat
with the best
with the exception of
with the exception that
with the help of
with the intent that
with the lark
with the saints
with the speed of light
with the stipulation
with the strong arm
with the sun
with the understanding
with the view of
with the wind
with the wind abaft the beam
with the wind aft
with this
with this proviso
with time to spare
with tongue in cheek
with total dedication
with truth
with undivided attention
with us
with utter indifference
with verve
with vim
with voice
with voice and vote
with vote
with watery eyes
with way on
with wind abeam
with young
with your back to the wall
with your eyes open
with your eyes peeled
with your family
with your fill of
with your head in the clouds
with your own petard
with your permission
with your tail between your legs
with your tongue in your cheek
with zest
with zip
with-drawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdrawing room
withe rod
wither away
wither-wrung
withered loins
withhold assent
withholding tax
within a stone's throw
within a styour throw
within a whoop and a holler
within an ace of
within an inch
within an inch of
within bounds
within call
within compass
within earreach
within earshot
within hail
within hearing
within means
within range
within range of
within reach
within reason
within reasonable limitations
within sight
within the bounds of possibility
within the bounds of reason
within the domain of possibility
within the frame of reference
within the framework
within the law
within the limits of reason
within the range of possibility
within the realm of possibility
within the reference system
within the scope of the law
within the universe of discourse
within these four walls
within two whoops and a holler
within your grasp
within-bound
within-door
within-named
without a break
without a change of menu
without a change of pace
without a change of scenery
without a clue
without a dissenting voice
without a minute to spare
without a name
without a nerve in your body
without a shadow of turning
without a sou
without a stitch
without a stitch on
without a stitch to one's name
without a stitch to your back
without a stitch to your name
without a tremor
without a will of your own
without any qualms
without any scruples
without any weight
without appeal
without basis
without being
without benefit of clergy
without body
without book
without bottom
without bound
without break
without care
without cease
without ceasing
without ceremony
without charge
without choice
without coercion
without compulsion
without compunction
without connection
without content
without contradiction
without date
without delay
without demur
without design
without difference
without difficulty
without distinction
without distraction
without door
without doors
without doubt
without end
without equal
without equivocation
without exception
without fail
without faith
without fear of contradiction
without fear or favor
without foundation
without further delay
without grounds
without hesitation
without hope
without intermission
without intimidation
without issue
without letup
without life
without limit
without looking back
without measure
without mercy
without nerves
without notice
without number
without omission
without parallel
without prejudice
without premeditation
without pressure
without price
without reason
without reference
without regard
without regard to
without regard to persons
without regret
without reluctance
without remorse
without reproach
without reserve
without respect to
without respect to persons
without restraint
without rhyme or reason
without shame
without sound basis
without stint
without stopping
without striking a blow
without strings
without success
without suspicion
without term
without the least delay
without the least doubt
without turning a hair
without unspotted
without vital functions
without warning
without wasting words
without willing
withy-bound
withy-woody
witloof chicory
witness box
witness corner
witness mark
witness stand
witness-box
witney nap
witty reply
witty retort
witty-brained
witty-conceited
witty-feigned
witty-pated
witty-pretty
witty-worded
wizard-woven
wizen-faced
wizen-hearted
woad vat
woad-leaved
woad-painted
wobble board
wobble pump
wobble saw
wobbling disk
woe is me
woe-begetting
woe-begone
woe-beseen
woe-bested
woe-betrothed
woe-boding
woe-dejected
woe-delighted
woe-denouncing
woe-destined
woe-embroidered
woe-enwrapped
woe-exhausted
woe-foreboding
woe-fraught
woe-grim
woe-humbled
woe-illumed
woe-infirmed
woe-laden
woe-maddened
woe-revolving
woe-scroring
woe-sprung
woe-stricken
woe-struck
woe-surcharged
woe-threatened
woe-tied
woe-wearied
woe-weary
woe-wedded
woe-whelmed
woe-wrinkled
woeful-wan
wold mouse
wolf at the door
wolf call
wolf cub
wolf dog
wolf down
wolf eel
wolf fish
wolf fruit
wolf grape
wolf herring
wolf in sheep's clothing
wolf in the stomach
wolf madness
wolf moth
wolf note
wolf pack
wolf snake
wolf spider
wolf tooth
wolf tree
wolf willow
wolf's-bane
wolf's-head
wolf-begotten
wolf-boy
wolf-child
wolf-children
wolf-colored
wolf-dog
wolf-eel
wolf-eyed
wolf-gray
wolf-haunted
wolf-headed
wolf-hound
wolf-hunting
wolf-man
wolf-moved
wolf-scaring
wolf-shaped
wolf-slaying
wolf-suckled
wolffian body
wolfram lamp
wolfram ocher
wolfram steel
woman chaser
woman child
woman movement
woman of easy virtue
woman of her word
woman of honor
woman of the house
woman of the street
woman of the streets
woman of the town
woman of the world
woman suffrage
woman's editor
woman's intuition
woman's rights
woman-bearing
woman-born
woman-bred
woman-built
woman-child
woman-churching
woman-conquered
woman-daunted
woman-degrading
woman-despising
woman-easy
woman-faced
woman-fair
woman-fashion
woman-flogging
woman-governed
woman-grown
woman-hater
woman-hating
woman-headed
woman-loving
woman-mad
woman-made
woman-man
woman-murdering
woman-proud
woman-ridden
woman-servant
woman-shy
woman-suffrage
woman-suffragist
woman-tended
woman-vested
woman-wary
womb-enclosed
womb-lodged
womb-to-tomb security
women's clothing
women's hairdos
women's lib
women's libber
women's liberation
women's liberation activist
women's liberation adherent
women's liberation advocate
women's liberation movement
women's liberationist
women's magazine
women's rightist
women's rights
women's room
women's suffrage
womens' chorus
wood awl
wood baboon
wood barker
wood bass
wood bedstraw
wood bender
wood betony
wood bison
wood block
wood boiler
wood borer
wood broom
wood brown
wood buffalo
wood bundle
wood calamint
wood calker
wood carpet
wood carver
wood carving
wood cell
wood cement
wood checker
wood chess
wood chopper
wood clamp
wood cleaner
wood cleaver
wood cloth
wood coal
wood coker
wood collier
wood copper
wood corn
wood cudweed
wood culver
wood daffodil
wood distiller
wood dove
wood draftsman
wood drake
wood drawing
wood dresser
wood driller
wood duck
wood duster
wood dyer
wood enameler
wood engraver
wood engraving
wood evil
wood facer
wood fagoter
wood feller
wood fern
wood fiber
wood file
wood filler
wood finisher
wood flour
wood flower
wood fretter
wood fringe
wood frog
wood gas
wood gatherer
wood germander
wood grass
wood groundsell
wood grouse
wood grower
wood grubber
wood gum
wood hair grass
wood hen
wood hewer
wood honey
wood hoopoe
wood hyacinth
wood ibis
wood instrument
wood ipecac
wood keeper
wood kingfisher
wood laborer
wood lark
wood laurel
wood leopard
wood leopard moth
wood lily
wood loader
wood lock
wood lot
wood louse
wood machine
wood machinist
wood meadow grass
wood meal
wood measurer
wood milling machine
wood mite
wood model
wood molder
wood mouse
wood naphtha
wood nettle
wood nightshade
wood nut
wood nymph
wood offering
wood oil
wood oil tree
wood opal
wood owl
wood packing
wood painting
wood paper
wood parenchyma
wood partridge
wood pavior
wood pea
wood peat
wood pegger
wood pennyroyal
wood pewee
wood pie
wood pigeon
wood pimpernel
wood pitch
wood planer
wood plant
wood polisher
wood port
wood pulp
wood pussy
wood quail
wood quartet
wood quintet
wood rabbit
wood range
wood rat
wood ray
wood reed
wood reed grass
wood render
wood robin
wood rose
wood rosin
wood rot
wood rush
wood sage
wood sandpiper
wood saw
wood sawyer
wood scale
wood screw
wood sheldrake
wood shock
wood shrike
wood slave
wood snail
wood snipe
wood sorrel
wood spack
wood spear grass
wood spirit
wood splitter
wood spurge
wood stain
wood stainer
wood stamp
wood star
wood stork
wood stove
wood strawberry
wood sugar
wood swallow
wood tapper
wood tar
wood tenoner
wood terrapin
wood thrush
wood tick
wood tin
wood titmouse
wood tortoise
wood trimmer
wood turner
wood turning
wood turpentine
wood vetch
wood vetchling
wood vine
wood vinegar
wood violet
wood warbler
wood wasp
wood widgeon
wood willower
wood wind
wood wool
wood wren
wood-and-water joey
wood-apple gum
wood-block
wood-block printing
wood-boring
wood-born
wood-bred
wood-built
wood-carver
wood-cased
wood-crowned
wood-cutter
wood-dried
wood-dwelling
wood-eating
wood-embosomed
wood-embossing
wood-encumbered
wood-faced
wood-fibered
wood-fringed
wood-girt
wood-hen
wood-hewing
wood-hooped
wood-kern
wood-keyed
wood-lined
wood-louse
wood-mat
wood-nep
wood-note
wood-nymph
wood-oil-tree family
wood-paneled
wood-paved
wood-pigeon
wood-planing
wood-quest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-sear
wood-sheathed
wood-skirted
wood-sorrel family
wood-sour
wood-spirit
wood-stock
wood-swallow
wood-tar pitch
wood-turning
wood-turning lathe
wood-walled
wood-wind instrument
wood-wind quartet
wood-wind quintet
woodbine green
woodbine-clad
woodbine-covered
woodbine-wrought
woodchat shrike
woodchuck day
woodcock owl
woodcock pilot
woodcock shell
woodcock snipe
woodcock soil
wooden Indian
wooden basket
wooden horse
wooden indian
wooden kimono
wooden nickel
wooden overcoat
wooden shoe
wooden shoes
wooden spoon
wooden spoonist
wooden tongue
wooden wedge
wooden-barred
wooden-bottom
wooden-faced
wooden-featured
wooden-headed
wooden-headedness
wooden-hooped
wooden-hulled
wooden-legged
wooden-lined
wooden-pinned
wooden-posted
wooden-seated
wooden-shoed
wooden-sided
wooden-soled
wooden-tined
wooden-walled
wooden-wheeled
woodgate rust
woodland brown
woodland caribou
woodland goldenrod
woodland primrose
woodland star
woodland sunflower
woods and fields
woods colt
woods cranberry
woods phlox
woods run
woodwind choir
woodwind instrument
woodwind quartet
woodwind section
woodworking chisel
woodworking lathe
woody nightshade
woody-stemmed
wooer-bab
wool breaker
wool burler
wool card
wool carder
wool carding
wool classer
wool classing
wool clip
wool comb
wool comber
wool combing
wool crepe
woolly-tailed
woolly-white
woolly-witted
woolsorter's disease
woolsorters' disease
wooly-headed
wootz steel
worcester china
worcester porcelain
worcestershire sauce
word accent
word arrangement
word association
word association test
word blindness
word boundary
word by word
word class
word contest
word deafness
word for word
word form
word game
word history
word hoard
word in the ear
word letter
word list
word lore
word method
word music
word musician
word of advice
word of command
word of explanation
word of honor
word of mouth
word order
word painter
word painting
word picture
word processing
word processor
word salad
word sign
word square
word stress
word study
word symbol
word time
word to the wise
word value
word-beat
word-blind
word-book
word-bound
word-breaking
word-catcher
word-catching
word-charged
word-clad
word-coiner
word-compelling
word-conjuring
word-deaf
word-dearthing
word-driven
word-for-word
word-for-word translation
word-formation
word-group
word-hoard
word-jobber
word-juggling
word-keeping
word-lore
word-of
word-of-mouth
word-of-mouth evidence
word-of-mouth success
word-paint
word-painting
word-perfect
word-pity
word-seller
word-selling
word-slinger
word-slinging
word-splitting
word-stock
word-wounded
words in their best order
words of wisdom
work a change
work a cure
work against
work against time
work as
work as a team
work at
work away
work back
work basket
work both sides of the street
work camp
work clothes
work cure
work curve
work day and night
work double hours
work double tides
work evil
work farm
work for
work for wages
work force
work function
work hard
work horse
work in
work into
work late
work lead
work like a Trojan
work like a cart horse
work like a coal heaver
work like a dog
work like a galley slave
work like a horse
work like a horse to
work like a machine
work like a slave
work load
work of Penelope
work of a master
work of a past master
work of an artist
work of art
work of fiction
work of reference
work off
work on
work out
work out a deal
work out beforehand
work over
work overtime
work release
work roller
work school
work sheet
work shift
work shoe
work shoes
work site
work socks
work song
work space
work spreading
work stock
work stone
work stoppage
work ticket
work to windward
work to your advantage
work to your will
work together
work toward
work train
work under pressure
work up
work up into a lather
work up into a passion
work up to
work upon
work week
work well
work wonders
work your fingers to the bone
work your head off
work your head to the bone
work your shift
work your way
work your way up
work yourself into a lather
work yourself into a stew
work yourself into a sweat
work yourself up
work-and-tumble
work-and-turn
work-and-twist
work-and-whirl
work-day
work-harden
work-hardened
work-hour
work-master
work-producing
work-seeking
work-shy
work-shyness
work-stained
work-stopper
work-study
work-study-play plan
work-study-play school
work-up
work-wan
work-weary
work-worn
worked out
worked up
worked up into a lather
worked-up
worker cell
worker comb
worker major
worker minor
worker of evil
worker of ill
worker-correspondent
worker-guard
worker-priest
workhouse sheeting
workhouse test
working asset
working beam
working capital
working card
working class
working day
working dog
working drawing
working face
working fit
working fluid
working force
working gauge
working girl
working hypothesis
working into a lather
working jib
working line
working load
working on
working order
working out a deal
working papers
working party
working pattern
working people
working person
working pit
working plan
working point
working principle
working proposition
working rail
working rod
working rule
working space
working stiff
working strength
working stress
working substance
working toward
working tube
working up
working week
working-capital fund
working-class
working-day
working-man
working-out
workings of the mind
workmen's compensation
workmen's compensation insurance
works committee
works council
works manager
works, the
world ash
world at large
world belt
world beyond the grave
world champion
world communion sunday
world concept
world day of prayer
world economy
world federalism
world federalist
world government
world ground
world island
world language
world line
world myth
world of fashion
world of finance
world of good
world of the dead
world point
world politics
world pound
world power
world premiere
world principle
world process
world series
world soul
world speech
world spirit
world state
world to come
world travel
world tree
world view
world war
world without end
world's oldest profession
world-abhorring
world-abiding
world-abstracted
world-accepted
world-acknowledged
world-adored
world-adorning
world-advancing
world-advertised
world-affecting
world-agitating
world-alarming
world-altering
world-amazing
world-amusing
world-animating
world-anticipated
world-applauded
world-appreciated
world-apprehended
world-approved
world-argued
world-arousing
world-arresting
world-assuring
world-astonishing
world-authorized
world-awed
world-barred
world-beater
world-beating
world-beheld
world-beloved
world-beset
world-borne
world-bound
world-braving
world-broken
world-bruised
world-building
world-burdened
world-busied
world-canvassed
world-captivating
world-celebrated
world-censored
world-censured
world-challenging
world-changing
world-charming
world-cheering
world-choking
world-chosen
world-circling
world-circulated
world-civilizing
world-classifying
world-cleansing
world-comforting
world-commanding
world-commended
world-compassing
world-compelling
world-condemned
world-confounding
world-connecting
world-conquering
world-conscious
world-consciousness
world-constituted
world-consuming
world-contemning
world-contracting
world-contrasting
world-controlling
world-converting
world-copied
world-corrupted
world-corrupting
world-covering
world-creating
world-credited
world-crippling
world-crowding
world-crushed
world-deaf
world-debated
world-deceiving
world-deep
world-defying
world-delighting
world-delivering
world-demanded
world-denying
world-depleting
world-depressing
world-describing
world-deserting
world-desired
world-desolation
world-despising
world-destroying
world-detached
world-detesting
world-devouring
world-diminishing
world-directing
world-disappointing
world-discovering
world-discussed
world-disgracing
world-dissolving
world-distributed
world-disturbing
world-divided
world-dividing
world-dominating
world-dreaded
world-dwelling
world-echoed
world-educating
world-embracing
world- eminent
world-encircling
world-ending
world-enlarging
world-enlightening
world-entangled
world-enveloping
world-envied
world- esteemed
world-excelling
world-exiting
world-famed
world-familiar
world-famous
world-favored
world-fearing
world-felt
world-forgetting
world-forgotten
world-forming
world-forsaken
world-forsaking
world-fretted
world-girdling
world-gladdening
world-governing
world-grasping
world-great
world-grieving
world-hailed
world-hardened
world-hating
world-heating
world-helping
world-honored
world-horrifying
world-humiliating
world-imagining
world-improving
world-infected
world-informing
world-involving
world-jaded
world-jeweled
world-joining
world-kindling
world-knowing
world-known
world-lamented
world-lasting
world-leading
world-leveling
world-lighting
world-line
world-linking
world-long
world-loving
world-mad
world-made
world-marked
world-mastering
world-melting
world-menacing
world-missed
world-mocking
world-mourned
world-moving
world-naming
world-needed
world-neglected
world-nigh
world-noised
world-noted
world-obligating
world-observed
world-occupying
world-offending
world-old
world-opposing
world-oppressing
world-ordering
world-organizing
world-outraging
world-overcoming
world-overthrowing
world-owned
world-paralyzing
world-pardoned
world-patriotic
world-peopling
world-perfecting
world-pestering
world-picked
world-pitied
world-plaguing
world-pleasing
world-poisoned
world-pondered
world-populating
world-portioning
world-possessing
world-power
world-practiced
world-preserving
world-prevalent
world-prized
world-producing
world-prohibited
world-protected
world-raising
world-rare
world-read
world-recognized
world-record holder
world-redeeming
world-reflected
world-regulating
world-rejected
world-rejoicing
world-relieving
world-remembered
world-renewing
world-renowned
world-resented
world-respected
world-restoring
world-revealing
world-reviving
world-revolving
world-ridden
world-round
world-rousing
world-roving
world-ruling
world-sacred
world-sacrificing
world-sanctioned
world-sated
world-saving
world-scarce
world-scattered
world-schooled
world-scorning
world-seasoned
world-self
world-serving
world-settling
world-shaking
world-sharing
world-shocking
world-sick
world-simplifying
world-sized
world-slandered
world-sobered
world-soiled
world-spoiled
world-spread
world-stained
world-startling
world-staying
world-stirring
world-strange
world-studded
world-subduing
world-sufficing
world-supplying
world-supporting
world-surrounding
world-surveying
world-sustaining
world-swallowing
world-taking
world-taming
world-taught
world-tempted
world-tested
world-thrilling
world-tired
world-tolerated
world-tossing
world-traveler
world-troubling
world-turning
world-uniting
world-used
world-valid
world-valued
world-venerated
world-view
world-waited
world-wandering
world-wanted
world-wasting
world-watched
world-wearied
world-wearily
world-weariness
world-weary
world-welcome
world-wept
world-wide
world-widely
world-wideness
world-winning
world-wise
world-without-end
world-witnessed
world-worn
world-wrecking
worldly minded
worldly wisdom
worldly-minded
worldly-mindedly
worldly-mindedness
worldly-wise
worlds apart
worlds of
worlds-high
worm abscess
worm along
worm aneurysm
worm bark
worm brood
worm burrow
worm capsule
worm cast
worm conveyer
worm disease
worm drive
worm fence
worm fever
worm gear
worm gearing
worm grass
worm gut
worm in
worm in the apple
worm in the rose
worm lizard
worm medicine
worm moss
worm oil
worm out
worm out of
worm powder
worm punch
worm shell
worm snake
worm tea
worm thread
worm tincture
worm tube
worm wheel
worm wire
worm your way
worm yourself in
worm yourself into
worm's eye view
worm-breeding
worm-cankered
worm-consumed
worm-destroying
worm-driven
worm-eat
worm-eaten
worm-eatenness
worm-eater
worm-eating
worm-gear elevator
worm-geared
worm-gnawed
worm-gnawn
worm-killing
worm-nest
worm-pierced
worm-resembling
worm-reserved
worm-riddled
worm-ripe
worm-shaped
worm-spun
worm-tongued
worm-wheel
worm-wheel hob thread
worm-worn
worm-wrought
wormseed mustard
wormseed oil
wormwood oil
wormwood sage
worn away
worn clothes
worn down
worn out
worn ragged
worn thin
worn to a frazzle
worn to a shadow
worn to rags
worn to the bone
worn to the bones
worn to the stump
worn to threads
worn-down
worn-out
worn-outness
worried sick
worried stiff
worried to a frazzle
worries and cares
worry along
worry beads
worry shoe
worry your head about
worry yourself
worry yourself sick
worry-carl
worse and worse
worse off
worse-affected
worse-applied
worse-bodied
worse-born
worse-bred
worse-calculated
worse-conditioned
worse-disposed
worse-dispositioned
worse-executed
worse-faring
worse-governed
worse-handled
worse-informed
worse-lighted
worse-mannered
worse-mated
worse-named
worse-natured
worse-opinionated
worse-ordered
worse-paid
worse-performed
worse-printed
worse-rated
worse-rulled
worse-satisfied
worse-served
worse-spent
worse-succeeding
worse-taught
worse-tempered
worse-thoughted
worse-timed
worse-treated
worse-typed
worse-utilized
worse-wanted
worse-wrought
worship great store by
worship idols
worship mammon
worship the golden calf
worship the ground you walk on
worship-paying
worst-affected
worst-bred
worst-cast
worst-damaged
worst-deserving
worst-disposed
worst-fashioned
worst-formed
worst-governed
worst-informed
worst-managed
worst-manned
worst-paid
worst-printed
worst-ruled
worst-served
worst-taught
worst-timed
worst-treated
worst-used
worst-wanted
worsted-stocking knave
worth a great deal
worth a king's ransom
worth a pretty penny
worth having
worth its weight in gold
worth the money
worth your salt
worth your while
worth-while
worth-whileness
worthless as tits on a boar
worthless fellow
worthy of
worthy of faith
wot not of
wot of
wou-wou
would as leave
would as lief
would as lief as not
would be glad of
would fain do
would fain have
would rather not
would-be
would-be gentleman
would-have-been
wound chevron
wound cork
wound fever
wound fungus
wound gall
wound parasite
wound rocket
wound shock
wound string
wound to the quick
wound up
wound-dressing
wound-fevered
wound-free
wound-inflicting
wound-marked
wound-plowed
wound-producing
wound-scarred
wound-secreted
wound-up
wound-worn
wounded pride
wounds immedicable
wove paper
woven-wire
wow-wow
wowie zowie
wr-
wrack and ruin
wrack grass
wrack the nerves
wrack up
wracked with age
wrangle over
wrap about
wrap around
wrap up
wrap yourself in
wrap-
wrap-around
wrap-rascal
wrap-round
wrap-up
wrapped in
wrapped in clouds
wrapped in mystery
wrapped in thought
wrapped in wonder
wrapped up
wrapped up in
wrapped up in yourself
wrapping paper
wrapping-gown
wrath-allaying
wrath-bewildered
wrath-consumed
wrath-faced
wrath-kindled
wrath-kindling
wrath-provoking
wrath-swollen
wrath-wreaking
wrathful-eyed
wreak havoc
wreak havoc on
wreak your vengeance
wreath goldenrod
wreath shell
wreath-crowned
wreath-drifted
wreath-festooned
wreath-wrought
wreath around
wreathed column
wreck buoy
wreck gun
wreck master
wreck of your former self
wreck-bestrewn
wreck-causing
wreck-devoted
wreck-free
wreck-raising
wreck-strewn
wreck-threatening
wrecking bar
wrecking car
wrecking crane
wrecking frog
wrecking pump
wren babbler
wren tit
wren warbler
wren-thrasher
wren-tit
wrench fit
wrench forger
wrench from
wrench hammer
wrench head
wrest block
wrest from
wrest out
wrest pin
wrest plank
wresting out
wrestle with
wrestling hold
wrestling match
wrestling meet
wrestling ring
wrestling school
wretched lot
wretched of the earth
wretched-fated
wretched-looking
wretched-witched
wriggle out of
wriggle yourself into
wring from
wring out
wring the heart
wring your hands
wringer washer
wringing fit
wringing machine
wringing wet
wringing-wet
wrinkle-coated
wrinkle-faced
wrinkle-fronted
wrinkle-furrowed
wrinkle-making
wrinkle-scaled
wrinkled like a prune
wrinkled-browed
wrinkled-cheeked
wrinkled-leaved
wrinkled-old
wrinkled-shelled
wrinkled-visaged
wrist clonus
wrist drop
wrist joint
wrist pin
wrist plate
wrist shot
wrist watch
wrist-drop
writ of assistance
writ of certiorari
writ of election
writ of error
writ of execution
writ of extent
writ of habeas corpus
writ of privilege
writ of prohibition
writ of protection
writ of right
writ of summons
write a letter
write between the lines
write destination
write down
write home about
write in
write in prose
write into your will
write off
write out
write poetry
write prose
write to
write up
write up a report
write upon
write your own ticket
write yourself a man
write-down
write-in
write-in campaign
write-in vote
write-off
write-up
writer to the signet
writer's block
writer's cramp
writer's itch
writer's palsy
writer's spasm
writer-in-residence
writing board
writing brush
writing cabinet
writing case
writing desk
writing exercise
wrong step
wrong time
wrong use
wrong-directed
wrong-doer
wrong-ended
wrong-endedness
wrong-feigned
wrong-foot
wrong-gotten
wrong-grounded
wrong-headed
wrong-headedly
wrong-headedness
wrong-jawed
wrong-minded
wrong-mindedly
wrong-mindedness
wrong-ordered
wrong-principled
wrong-screwed
wrong-thinking
wrong-timed
wrong-voting
wrong-way
wrong-way around
wroth money
wroth penny
wroth silver
wrought iron
wrought iron casting
wrought out
wrought up
wrought up by
wrought-iron
wrought-up
wry face
wry mouth
wry-armed
wry-billed
wry-blown
wry-eyed
wry-faced
wry-formed
wry-guided
wry-legged
wry-looked
wry-mouthed
yard signalman
yard slings
yard sweeper
yard tackle
yard trader
yard up
yard-arm
yard-broad
yard-deep
yard-long
yard-long bean
yard-measure
yard-of-ale
yard-square
yard-thick
yard-wand
yard-wide
yardarm to yards
yarding engine
yarn baller
yarn bleacher
yarn boiler
yarn buncher
yarn bundler
yarn carrier
yarn conditioner
yarn croft
yarn dresser
yarn dryer
yarn dyer
yarn finisher
yarn inspector
yarn packer
yarn printer
yarn reel
yarn reeler
yarn remover
yarn sizer
yarn sorter
yarn spinner
yarn spinning
yarn spreader
yarn stretcher
yarn stripper
yarn tester
yarn twister
yarn warper
yarn washer
yarn waste
yarn weigher
yarn winder
yarn-boiling
yarn-cleaning
yarn-dye
yarn-dyed
yarn-measuring
yarn-mercerizing
yarn-spinning
yarn-testing
yate tree
yaw off
yaw shrub
yaw-haw
yaw-sighted
yaw-ways
yaw-yaw
yawl boat
yawl-rigged
yawning abyss
yawning chasm
yawning depths
yay big
ye do
ye-makimono
yea sayer
yea vote
yea-and-nay
yea-and-nayish
yea-nay
yea-sayer
yea-saying
yeah-yeah
year after year
year count
year hour
year in
year in and year out
year in year out
year letter
year of grace
year out
year's mind
year-around
year-book
year-born
year-counted
yellow rust
yellow skin
yellow spot
yellow star
yellow stonecrop
yellow streak
yellow stuff
yellow trillium
yellow tuft
yellow warbler
yellow water lily
yellow-aproned
yellow-armed
yellow-backed
yellow-banded
yellow-bark
yellow-bark oak
yellow-barked
yellow-barred
yellow-beaked
yellow-bearded
yellow-bellied
yellow-bellied sapsucker
yellow-bellied woodpecker
yellow-belly
yellow-billed
yellow-billed cuckoo
yellow-billed magpie
yellow-black
yellow-blossomed
yellow-blotched
yellow-bodied
yellow-breasted
yellow-breasted chat
yellow-browed
yellow-brown
yellow-capped
yellow-centered
yellow-checked
yellow-cheeked
yellow-chinned
yellow-collared
yellow-colored
yellow-complexioned
yellow-covered
yellow-crested
yellow-cross
yellow-cross liquid
yellow-crowned
yellow-crowned night heron
yellow-daisy
yellow-dog
yellow-dog contract
yellow-dotted
yellow-dun
yellow-dye
yellow-dye tree
yellow-dyed
yellow-eared
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
yellow-faced
yellow-feathered
yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
yellow-flagged
yellow-fleeched
yellow-fleshed
yellow-flowered
yellow-flowering
yellow-footed
yellow-fringed
yellow-fronted
yellow-fruit ed
yellow-funneled
yellow-girted
yellow-gloved
yellow-green
yellow-green alga
yellow-haired
yellow-hammer
yellow-handed
yellow-headed
yellow-headed blackbird
yellow-hilted
yellow-horned
yellow-hosed
yellow-jerkin ed
yellow-labeled
yellow-leaved
yellow-legged
yellow-legger
yellow-legginged
yellow-lettered
yellow-lit
yellow-locked
yellow-lustered
yellow-maned
yellow-marked
yellow-necked
yellow-nosed
yellow-olive
yellow-orange
yellow-painted
yellow-papered
yellow-pinioned
yellow-pyed
yellow-rayed
yellow-red
yellow-ringled
yellow-ringleted
yellow-ripe
yellow-robed
yellow-rooted
yellow-rumped
yellow-sallow
yellow-seal
yellow-sealed
yellow-shafted
yellow-shafted flicker
yellow-shanked
yellow-shouldered
yellow-skinned
yellow-skirted
yellow-speckled
yellow-splotched
yellow-spotted
yellow-sprinkled
yellow-stained
yellow-starched
yellow-stripped
yellow-tailed
yellow-throated
yellow-throated vireo
yellow-tinged
yellow-tinging
yellow-tinted
yellow-tipped
yellow-toed
yellow-tressed
yellow-tufted
yellow-vented
yellow-washed
yellow-white
yellow-winged
yellowfin tuna
yellowish-amber
yellowish-brown
yellowish-colored
yellowish-gold
yellowish-gray
yellowish-green
yellowish-green-yellow
yellowish-haired
yellowish-orange
yellowish-pink
yellowish-red
yellowish-red-yellow
yellowish-rose
yellowish-skinned
yellowish-tan
yellowish-white
yelly-hoo
yelly-hooing
yelp at
yen for
yeoman of the guard
yeoman service
yeoman's service
yeomen of the guard
yerba buena
yerba mansa
yerba mate
yerba reuma
yerba sagrada
yerba santa
yerba-mate
yerk out
yes indeed
yes indeedy
yes ma'am
yes man
yes sir
yes sirree
yes-and-no answer
yes-man
yes-no
yes-noer
yes-noism
yeshiva bocher
yester-
yester-year
yesterday and today and forever
yet again
yew berry
yew family
yew green
yew pine
yew tree
yew-besprinkled
yew-crested
yew-hedged
yew-leaved
yew-roofed
yew-shaded
yew-treed
yi tsing ware
yield a profit
yield again to
yield an aroma
yield an odor
yield assent
yield hope
yield point
yield strength
yield stress
yield the floor
yield the ghost
yield the palm
yield the spirit
yield to
yield to despair
yield to maturity
yield value
yield your breath
yielding a return
yielding prop
yill-caup
ylang-ylang
yo-heave-ho
yo-ho
yo-ho-ho
yo-kyoku
yo-yo
yoga trance
yohimbe bark
yoke bone
yoke devil
yoke elm
yoke front
yoke method
yoke riveter
yoke with
yoke-footed
yoke-toed
yolk bag
yolk boil
yolk cord
yolk duct
yolk gland
yolk nucleus
yolk plate
yolk plug
yolk sac
yolk stalk
yolk yellow
yom kippur
yom tob
yom tobs
yom tov
yom tovs
yomin tovim
yoo-hoo
york rite
yorkshire pudding
yorkshire terrier
you and me
you are mistaken
you are right
you are wrong
you bet
you bet your boots
you bet your life
you better believe it
you can bank on it
you can bet on it
you can bet your bottom dollar
you can just bet
you can make book on it
you can say that again
you can’t go wrong
you don't say
you have another guess coming
you name it
you said a mouthful
you said it
you should live so long
you speak truly
you too
you're all wet
you're darn tootin'
you're not kidding
you're telling me
you're way off
you've got it
you've got me
you've got something there
you-all
you-be-damned
you-be-damnedness
you-know-what
you-know-who
you-uns
young animal
young bird
young blood
young buck
young cat
young chicken
young cow
young creature
young deer
young devil
young dog
young duck
young frog
young fry
young fustic
young generation
young goat
young goose
young hopeful
young horse
young hyson
young insect
young lady
young man
young one
young people
your blood
your crowd
your cup of tea
your days are numbered
your doom is sealed
your due
your fathers
your grain
your head off
your hour
your hour is come
your last hour
your level best
your native ground
your native heath
your native place
your number is up
your own choice
your own discretion
your own initiative
your own level
your own man
your own will
your race is run
your ribs
your say
your set
your turn
your utmost
your worth
yours truly
youth club
youth group
youth hood
youth hostel
youth hosteler
youth market
youth offender
youth-bold
youth-consuming
youthful offender
youthful spirits
ytterbium metal
ytterbium oxide
yttrium metal
yttrium oxide
yttro-
yuan dollar
zebra-plant
zebra-tailed
zebra-tailed lizard
zebrawood family
zebu cattle
zee bar
zeeman effect
zenaida dove
zend-avesta
zenith blue
zenith collimator
zenith distance
zenith point
zenith sector
zenith star
zenith telescope
zenith tube
zenith-pole
zenith-pole arc
zenith-star arc
zenithal projection
zephyr worsted
zephyr cloth
zephyr flower
zephyr lily
zephyr shawl
zephyr shirting
zephyr worsted
zephyr yarn
zephyr-fanned
zephyr-haunted
zephyr-kissed
zero ablaut grade
zero algebra
zero beat
zero day
zero element
zero fleck
zero grade
zero gravity
zero grazing
zero group
zero hour
zero in
zero in on
zero magnet
zero mark
zero matrix
zero method
zero oil
zero point
zero post
zero potential
zero set
zero stage
zero stem
zero thrust pitch
zero tone
zero torque pitch
zero vector
zero weather
zero-dimensional
zero-divisor
zero-lift
zero-lift angle
zero-point energy
zero-rated
zero-thrust pitch
zero-zero
zeroth law of thermodynamics
zeta function
zetetic philosophy
zig and zag
zigzag course
zigzag fence
zigzag path
zigzag rule
zigzag-fashion
zigzag-lined
zigzag-shaped
zila parishad
zimocca sponge
zinc alkyl
zinc amide
zinc blende
zinc bloom
zinc bromide
zinc carbonate
zinc chloride
zinc chromate
zinc chrome
zinc crust
zinc dust
zinc engraving
zinc etching
zinc ethide
zinc ethyl
zinc fixer
zinc flowers
zinc gray
zinc green
zinc methide
zinc methyl
zinc ointment
zinc orange
zinc oxide
zinc phosphide
zinc sender
zinc spar
zinc spinel
zinc standard cell
zinc stearate
zinc sulfate
zinc sulfide
zinc sulphate
zinc sulphide
zinc vitriol
zinc white
zinc yellow
zinc-coated
zinc-etched
zinc-lined
zinc-roofed
zinc-sampler
zinco-
zinco-polar
zip code
zip fastener
zip gun
zip through
zip up
zircon lamp
zircon light
zircon-syenite
zirconium dioxide
zirconium oxide
zo-
zodiacal constellation
zodiacal light
zona pellucida
zonae pellucidae
zonal soil
zone axis
zone catalogue
zone fire
zone line
zone melting
zone of communications
zone of fire
zone of interior
zone of no signal
zone phenomenon
zone plate
zone refining
zone system
zone tariff
zone time
zone-confounding
zone-marked
zone-tailed
zoning act
zoning commission
zoning law
zoning laws
zoning ordinance
zoned out
zono-
zoo-
zoo-ecologist
zoo-ecology
zoogenic infection
zoological garden
zoom binoculars
zoom in
zoom lens
zoom shot
zoot suit
zoot-suiter
zwitter ion
zyg-
zygo-
zygomatic arch
zygomatic bone
zygomatic process
zym-
zymo-

Found in path(s):
No license file was found, but licenses were detected in source scan.
ablatives
ablaut
ablauts
ablaze
able
ablegate
ablegates
abler
ables
ablest
ablings
ablins
abloom
abluent
abluents
ablush
ablated
ablution
ablutions
ably
abmho
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abnegate
abnegated
abnegates
abnegating
abnegation
abnegations
abnormal
abnormalities
abnormality
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abominable
abominate
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abominates
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airlift
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alone
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alpacas
alpha
alphabet
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alphabetical
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alphabeting
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alveolar
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alvine
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alyssum
alyssums
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amanuensis
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analogue
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anchoret
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anchormen
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andesyttes
andiron
andirons
androgen
androgens
androgynous
android
androids
ands
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aneared
anearing
anguine
anguish
anguished
anguishes
anguishing
angular
angularities
angularity
angulate
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angulating
angulose
angulous
anhinga
anhingas
ani
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anils
anima
animal
animally
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animas
animate
animated
animater
animaters
animates
animating
animation
animations
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Bonn
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Boole
Boolean algebra
Boone
Booth
Bootle
Bora Bora
Bordeaux
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Bordelaise
Border terrier
Boreas
Borgerhout
Borges
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Born
Borneo
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Bornu
Borodin
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Borrow
Bremerhaven
Bren gun
Brenner Pass
Brentwood
Brescia
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Bretton Woods Conference
Breuer
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Brewster
Brewster chair
Brezhnev
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Bridge
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Bridges
Bridget
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Bright's disease
Brighton
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Brigit
Brillat-Savarin
Brindisi
Brinell number
Brisbane
Bristol
Bristol Channel
Bristol board
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Brit
Brit.
Britain
Britannia
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Buckingham
Buckingham Palace
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Buddh Gaya
Buddha
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Budge
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Buena Vista
Buenaventura
Buenos Aires
Buffalo
Buffalo Bill
Buffet
Buffon
Bug
Buitenzorg
Bujumbura
Bukavu
Bukhara
Bukharin
Bukovina
Bul
Bulawayo
Bulg.
Bulgarian
Bulgar
Bulgaria
Bulgarian
Bulge
Bull
Bull Run
Bullpup
Bulwer-Lytton
Buna
Bunche
Bund
Bundelkhand
Bundesrat
Bundestag
Bunin
Bunker Hill
Bunsen
Bunsen burner
Caldwell
Caledonia
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Caledonian Canal
Calgary
Cali
Caliban
Calicut
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California
California poppy
Caligula
Callaghan
Callao
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Callicrates
Callimachus
Calliope
Callisto
Calpe
Caltanissetta
Calvados
Calvary
Calvary cross
Calvert
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Cam
Camb.
Cambodia
Cambrai
Cambria
Cambrian
Cambridge
Cambridgeshire
Cambyse
Camden
Camelopardalis
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Camelot
Camembert
Camenae
Cameroon
Cameroon
Camorra
Campagna
Campania
Campbell
Campbell-Bannerman
Campbellite
Campeche
Campina Grande
Campinas
Campion
Campo Formio
Campo Grande
Campobello
Campos
Camus
Can.
Cana
Canaan
Canaanite
Canad.
Canada
Canada balsam
Canada goose
Canada thistle
Canadian
Canadian French
Canadian River
Canadian bacon
Canadian football
Canadian whiskey
Canadianism
Canal Zone
Canaletto
Canara
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Canary Islands
Canaveral
Canberra
Cancer
Candia
Candiot
Candiles
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Canes Venatici
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Canis Major
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Cannae
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Canning
Canopic jar
Canopus
Canossa
Canova
Canso
Cant.
Cantabrigian
Cantal
Canterbury
Canterbury bell
Canticle of Canticles
Canton
Canton River
Canton crepe
Canton flannel
Cantonese
Canuck
Canute
Cap-Haitien
Capablanca
Cape Cod
Cape Colony
Cape Dutch
Cape Horn
Cape Town
Cape buffalo
Capella
Capernaum
Capet
Capetian
Capitol
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Caporetto
Cappadocia
Capri
Capri pants
Capricorn
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Caracalla
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Carbonari
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Carcassonne
Carchemish
Card.
Cardiff
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Cardigan Bay
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Carducci
Carew
Carey
Caria
Carib
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Caribbean Sea
Cariboo Mountains
Carina
Carinthia
Carlisle
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Carlos
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Carlovingian
Carlow
Carlsbad
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Carlyle
Carmarthen
Carmarthenshire
Carmel
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Carnap
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Carnegie
Carniola
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Caro's acid
Carol II
Carolina
Caroline
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Carolingian
Carolinian
Carpathian Mountains
Carpatho-Ukraine
Carpentaria
Carpenter
Carrara
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Cesarean
Cesena
Cetinje
Ceto
Cetus
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Ceylon moss
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Ch.B.
Ch.E.
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Chaco
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Chadwick
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Chain
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Chaldea
Chaldean
Chaliapin
Cham
Chamaeleon
Chamberlain
Chambertin
Chamonix
Chamorro
Champagne
Champlain
Champollion
Chancellor of the Exchequer
Chancellorsville
Chandigarh
Chandler
Chandragupta
Chanel
Changchun
Changsha
Changteh
Channel Islands
Chantilly
Chantilly lace
Chanukah
Chao Phraya
Chaoan
Chaplin
Chapman
Charcot
Chardin
Charente
Charente-Maritime
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Chari-Nile
Charing Cross
Charlemagne
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Charles I
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Charles V
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Chariton
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Cheiron
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Cherokee
Cherokee rose
Cherubini
Chesapeake Bay
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Cheshire
Cheshvan
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Chester White
Chesterfield
Chesterfieldian
Chesterton
Chetnik
Chevalier
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Cheviot Hills
Cheyenne
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Chiang Kai-shek
Chianti
Chiapas
Chiba
Chibcha
Chibchan
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Chichihaerh
Chinook
Chinook Jargon
Chinook salmon
Chinookan
Chios
Chippewa
Chirico
Chiron
Chishima
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Choctaw
Choiseul
Cholon
Cholula
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Chou En-lai
Chr.
Christ
Christ Jesus
Christ's-thorn
Christadelphian
Christchurch
Christendom
Christhood
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Christian Era
Christian Science
Christian Scientist
Christian X
Christian name
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Christiansand
Christie
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Christly
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Christmas Island
Christmas cactus
Christmas card
Christmas disease
Christmas pudding
Christmas rose
Christmas stocking
Christmas tree
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Christopher
Christy
Chron.
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Chu Teh
Chubb
Chudskoye Ozero
Chukchi
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Chungking
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Church of Rome
Churchill
Chuvash
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Ciceronian
Cid
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Ciliata
Cilicia
Cilician Gates
Cimabue
Cimbri
Cimmerian
Cimon
Cincinnati
Cincinnatus
Cinderella
Cinemascope
Cinerama
Cinque Ports
Cipango
Circassia
Circassian
Circe
Circinus
Circus Maximus
Cirenaica
Cisalpine Gaul
Ciscaucasia
Cistercian
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Ciudad Trujillo
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Clackmannan
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Clough
Clovis I
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Cluny lace
Clyde
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Clydesdale
Clytemnestra
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Cmdr.
Cnidus
Cnossus
Cnut
Co
Co.
Coahuila
Coatbridge
Coates
Cobbett
Cobden
Cobham
Coblentz
Coburg
Cochabamba
Cochin
Cochise
Cockaigne
Cockayne
Cockcroft
Cocos Islands
Cocteau
Cocytus
Cod
Codex Juris Canonici
Cody
Coeur de Lion
Cognac
Cohen
Coimbatore
Coimbra
Cointreau
Coke
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Colbert
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Coldstream Guards
Coleridge
Colet
Colette
Coligny
Colima
College of Cardinals
Collins
Colmar
Colo.
Cologne
Cologne brown
Colombes
Colombia
Colombo
Colonel Blimp
Colorado
Colorado Desert
Colorado Springs
Colorado beetle
Colorado potato beetle
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Colosseum
Colossian
Colossians
Colt
Colum
Columba
Columbia
Columbian
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Columbus
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Com.
Com. Ver.
Coma Berenices
Comanche
Comanchean
Comdr.
Comdt.
Comenius
Comines
Cominform
Comintern
Commerce
Communes
Connacht
Connaught
Connecticut
Conrad
Cons.
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Conservative Jew
Conservative Judaism
Conservative Party
Constable
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Constant
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Cooch Behar
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Cook Strait
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Copenhagen
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Corcyrta
Cordelier
Cordilleras
Cordova
Cordovan
Corelli
Corfam
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Corinth
Corinthian
Corinthians
Coriolanus
Cork
Corneille
Cornish
Cornish pasty
Cornwall
Cornwallis
Coromandel Coast
Corona Australis
Corona Borealis
Corot
Corpus Christi
Corpus Juris Canonici
Corpus Juris Civilis
Correggio
Corregidor
Corriedale
Corrientes
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Corsica
Cortes
Corunna
Corvus
Corybant
Corydon
Cos
Cosa Nostra
Cosenza
Cosgrave
Cosmotron
Cossack
Costa Brava
Costa Rica
Costermansville
Cotonou
Cotopaxi
Cotswold
Cotswolds
Cottbus
Cottian Alps
Coulomb
Coulomb's law
Council of Trent
Cuneo
Cupid
Cupid's bow
Curia Regis
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Curie's law
Curie-Weiss law
Curitiba
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Cushitic
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Cuxhaven
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Cydnus
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Cymric
Cymry
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Cynic
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Cynthia
Cyprian
Cypriot
Cyprus
Cyrano de Bergerac
Cyrenaic
Cyrenaica
Cyrene
Cyril
Cyrillic
Cyrus
Cythera
Cytherea
Cyzicus
Czech
Czech.
Czechoslovak
Czechoslovakia
Czernowitz
Czerny
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D and C
D region
D'Annunzio
D'Entrecasteaux Islands
D'Oyly Carte
D-day
D.
D.A.
D.B.E.
D.C.
D.C.L.
D.C.M.
D.D.
D.D.S.
D.Eng.
D.F.
D.F.C.
D.J.
D.O.
D.O.A.
D.O.M.
D.P.
D.P.H.
D.P.W.
D.S.
D.S.C.
D.S.M.
D.S.O.
D.Sc.
D.V.
D.V.M.
D/A
D/F
D/L
D/O
D/W
DC
DD
DDT
DEW line
DM
DMSO
DMZ
DNA
DOVAP
DX
Dacca
Dachau
Dacia
Dacron
Dada
Daedalus
Dagan
Dagda
Dagenham
Dagon
Daguerre
Dagwood sandwich
Dahna
Dahomey
Dairen
Dak.
Dakar
Dakin's solution
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Daladier
Dalai Lama
Dale
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Dallas
Dalmatia
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Dalton's law
Dam
Daman
Damaraland
Damascene
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Damascus steel
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Damietta
Damocles
Damon and Pythias
Dampier
Dan
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Danaides
Danaus
Dandie Dinmont
Dane
Danegeld
Danelaw
Daniel
Daniell cell
Danish
Danish West Indies
Danish blue
Danish pastry
Dano-Norwegian
Dante
Danton
Danu
Danube
Danzig
Daphne
Daphnis
Daphnis and Chloe
Dapsang
Dar es Salaam
Darby and Joan
Dardan
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Dardanus
Darfur
Darien
Darius I
Darius III
Darjeeling
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Darlan
Darling
Darling Range
Darling River
Darlington
Darmstadt
Darnley
Dartmoor
Dartmouth
Darvon
Darwin
Darwinian
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Deep South
Defoe
Degas
Dehra Dun
Deianira
Deimos
Deirdre
Dekker
Del.
Delacroix
Delagoa Bay
Delaunay
Delaware
Deledda
Delft
Delgado
Delhi
Delian
Delibes
Delilah
Delius
Delmarva Peninsula
Delorme
Delos
Delphi
Delphic
Delphic oracle
Delphinus
Delta
Dem.
Demavend
Demerol
Demeter
Democrat
Democratic Party
Democratic-Republican Party
Democritus
Demogorgon
Demosthenes
Dempsey
Den.
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Denmark Strait
Denton
Denver
Denys
Deo gratias
Deo volente
Department of Agriculture
Department of Commerce
Department of Defense
Department of Justice
Department of Labor
Derain
Derbent
Derby
Derbyshire
Derry
Derwent
Des Moines
Descartes
Desmoulins
Dessalines
Dessau
Detroit
Deucalion
Deus
Deut.
Deuteronomy
Deutschland
Devanagari
Deventer
Devereux
Devi
Devil's Island
Devon
Devonian
Devonshire cream
Dewar
Dewey
Dexamyl
Dexedrine
Dexter
Dezhnev
Dhahran
Dhammapada
Dhaulagiri
Di
Diaghilev
Diana
Dias
Diaspora
Diaz
Dick
Dick test
Dickens
Dickinson
Dictaphone
Dictograph
Didache
Diderot
Dido
Diefenbaker
Diels-Alder reaction
Dieppe
Dies Irae
Diesel
Dietrich
Dijon
Dike
Dilantin
Dimitrovo
Din.
Dinah
Dinaric Alps
Dinesen
Dinka
Diocletian
Diodorus Siculus
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Diomede Islands
Diomedes
Dione
Dionysia
Dionysiac
Dionysian
Dionysius
Dionysius Exiguus
Dionysius of Halicarnassus
Dionysus
Diophantus
Dior
Dioscuri
Dirac
Directoire
Dirichlet
Dis
Disciples of Christ
Dismal Swamp
Disney
Disraeli
Distinguished Conduct Medal
Distinguished Flying Cross
Distinguished Service Cross
Distinguished Service Medal
Distinguished Service Order
District of Columbia
Distrito Federal
Dir
Dives
Divine Mind
Dixie
Dixieland
Djakarta
Djambi
Djerba
Djokjakarta
Dneprodzerzhinsk
Dnepropetrovsk
Dnieper
Dniester
Dobell's solution
Doberman pinscher
Dobruja
Doctor of Philosophy
Dodecanese
Dodge City
Dodge
Dodge
Dodge
Dodona
Doe
Donitz
Dog Star
Dogberry
Dogger Bank
Doha
Dollfuss
Dolly Varden
Dolomites
Dom
Dom.
Domesday Book
Domett
Dominic
Dominica
Dominican
Dominican Republic
dominion Day
dominus
domitian
don
Don Juan
don quixote
donar
Donatello
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donatus
donau
doncaster
donegal
donets
donetsk
dongola
Donna
donne
doolittle
doomsday Book
doorn
doppler effect
doppler radar
dorado
dorcas
dorcas society
dorchester
dordogne
Dordrecht
dorian
dorian mode
doric
doris
Dorking
dorp
dorset
dorset horn
dort
dortmund
dos Passos
dou
douai
douala
douay Bible
doubs
doughty
douglas
Douglas fir
Douglas-Home
Doukhobor
Douro
Dove
Dover
Dover's powder
Dow
Dow-Jones average
Dowland
Down
Down's syndrome
Downing Street
Dowson
Doyle
Dr
Dr.
Draco
Draconian
Dracula
Drake
Drake Passage
Drakensberg
Dramamine
Drambuie
Draper
Drava
Dravidian
Drayton
Dreibund
Dreiser
Drenthe
Dresden
Dresden china
Dreyfus
Drin
Drinkwater
Drogheda
Druid
Drury Lane
Druse
Dry Ice
Dry Tortugas
Dryden
Du Barry
Du Gard
Du Guesclin
Du Maurier
Dunstan
Dupleix
Duplessis-Mornay
Dur.
Duralumin
Durango
Durazzo
Durban
Durga
Durham
Durkheim
Duroc
Durrell
Dutch
Dutch Belted
Dutch East Indies
Dutch Guiana
Dutch New Guinea
Dutch West Indies
Dutch auction
Dutch cap
Dutch cheese
Dutch courage
Dutch door
Dutch elm disease
Dutch gold
Dutch metal
Dutch oven
Dutch rush
Dutch treat
Dutch uncle
Dutchman
Dutchman's-breeches
Dutchman's-pipe
Duvalier
Dvina
Dvina Bay
Dvinsk
Dy
Dyak
Dyaus
Dylan
Dynel
Dzerzhinsk
Dzungaria
E
E layer
E region
E-boat
E.
E.E.
E.E. & M.P.
E.I.
E.R.
E.T.A.
E.T.D.
E.V.
EAM
ECG
EDP
E.E.
E.E. & M.P.
E.I.
E.R.
E.T.A.
E.T.D.
E.V.
East Prussia
East Riding
East Sussex
Eastbourne
Easter
Easter Island
Easter Monday
Easter Sunday
Easter egg
Easter lily
Easter sepulcher
Eastern Church
Eastern Ghats
Eastern Hemisphere
Eastern Orthodox Church
Eastern Roman Empire
Eastern rite
Eastern time
Easterner
Eastertide
Eastman
Ebert
Eblis
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Ebro
Ecbatana
Eccles
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Ecclus.
Echo
Eck
Eckhart
Ecua.
Ecuador
Edam
Edda
Eddington
Eddy
Eddystone Rocks
Ede
Eden
Edessa
Edgar
Edgeworth
Edinburgh
Edirne
Edison
Edison effect
Edmonton
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Edom
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Eijkman
Eindhoven
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Einstein theory
Eire
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Eisenhower
Eisenhower jacket
Eisenstein
Eisk
Ekaterinburg
Ekaterinodar
Ekaterinoslav
El Alamein
El Capitan
El Cid Campeador
El Dorado
El Ferrol
El Greco
El Mansura
El Misti
El Obeid
El Paso
El Salvador
Elagabalus
Elaine
Elam
Elamite
Elamitic
Elba
Elbe
Elbert
Elbrus
Elburz Mountains
Eldorado
Elea
Eleanor of Aquitaine
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Electra complex
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Eli
Elia
Elias
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Elis
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Ellice Islands
Ellington
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Elsinore
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Ely
Elyot
Elysian
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Emancipation Proclamation
Emden
Emerald Isle
Emerson
Emilia-Romagna
Eminence
Emmanuel
Emmen
Emmy
Emp.
Empedocles
Empire Day
Empire State
Empirin
Empson
Enceladus
Enderby Land
Endymion
Enesco
Enfield
Enfield rifle
Eng.
Engadine
Engels
England
English
English Channel
English bond
English horn
English ivy
English muffin
English red
English saddle
English setter
English sonnet
English sparrow
English springer spaniel
English toy spaniel
English walnut
Englishism
Englishman
Englishman's tie
Englishry
Enid
Eniwetok
Enki
Enil
Ennis
Ennus
Enoch
Enos
Ens.
Enschede
Ensor
Entebbe
Enugu
Enver Pasha
Enyo
Eocene
Eogene
Eolian
Eolic
Eolithic
Eos
Eozoic
Ep.
Epaminondas
Eph.
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eism
Epicureanism
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Epidaurus
Epigoni
Epimenides
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Epsom
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Erasmus
Erastian
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Eratosthenes
Erbil
Erebus
Erechtheum
Erechtheus
Erechtheus
Ereskigal
Erfurt
Erhard
Eric the Red
Ericson
Eridanus
Erie
Erie Canal
Erigena
Erin
Eris
Eritlea
Erivan
Erlanger
Erlenmeyer flask
Ernst
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Singer
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Southerner
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Soutine
Soviet Russia
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Stamford
Standard English
Stanford-Binet test
Stanley
Stans
Star Chamber
Star of Bethlehem
Star of David
Star-Spangled Banner
Stara Zagora
Stark
Stars and Stripes
Staten Island
Stationers’ Company
Statius
Statue of Liberty
Stavanger
Stavropol
Ste.
Steele
Steen
Stefansson
Steiermark
Stein
Steiner
Stella
Stellite
Sten gun
Stendhal
Stentor
Stephen
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Stratford-on-Avon
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Stravinsky
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Sublime Porte
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Takamatsu
Takao
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Talca
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Taliesin
Tallahassee
Tallinn
Tallis
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Talmud
Talmud Torah
Talmudist
Talos
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Tamaulipas
Tamburlaine
Tamerlane
Tamil
Tammany Hall
Tammuz
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Tampere
Tamworth
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Tanach
Tanagra
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Tancred
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Tangier
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Tanjore
Tannenberg
Tanta
Tantalus
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Tanzania
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Tecumseh
Tees
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Tel Aviv
Telamon
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Tell
Teller
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Tenn.
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Tenniel
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Tepic
Ter Borch
Terai
Terceira
Terence
Tereshkova
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Terrier
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Thurs.
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Thyestes
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Tiffany glass
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Timisoara
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Timor Sea
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Tindal
Tintoretto
Tipperary
Tiresias
Tirich Mir
Tiro
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Tirpitz
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Tishri
Tisiphone
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Tit.
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Tob.
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Tobit
Tobolsk
Tocantins
Tocharian
Todd
Togliatti
Togo
Togoland
Tojo
Tokay
Tokharian
Tokyo
Toledo
Toluca
Tom
Tom Collins
Tom Thumb
Tom and Jerry
Tombouctou
Tommy
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Tomsk
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Tonkin
Tonle Sap
Toowoomba
Topeka
Tophet
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Torino
Toronto
Torquay
Torquemada
Torrance
Torre del Greco
Torrens
Torres Strait
Torricelli
Torrid Zone
Tortola
Tortuga
Tory
Toryism
Toscana
Toscanini
Toul
Toulon
Toulouse
Toulouse-Lautrec
Touraine
Tourane
Tourcoing
Tournai
Tourneur
Tours
Toussaint L'Ouverture
Tower of London
Townsville
Toyama
Trabzon
Tractarianism
Trafalgar
Traherne
Trajan
Tralee
Transalpine Gaul
Transcaucasia
Transylvanian Alps
Trapani
Trappist
Travancore
Treasury
Trebizond
Treblinka
Tree
Trengganu
Trentino-Alto Adige
Trento
Trenton
Trevelyan
Treviso
Triangulum Australe
Trichinopoly
Tridentine
Tridentum
Trier
Trieste
Trimurti
Trincomalee
Trinidad
Trinidad and Tobago
Trinitarian
Trinitarianism
Trinity
Trinity Sunday
Tripitaka
Triple Alliance
Triple Entente
Tripoli
Triptolemus
Tripura
Tristan
Tristan da Cunha
Triton
Trivandrum
Trobriand Islands
Trojan
Trojan War
Trollope
Trondheim
Trossachs
Trotskyism
Trotskyist International
Trotskyite
Troy
Troyes
Trudeau
Trujillo
Truman
Truman Doctrine
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Tsaritsyn
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Tubman
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Tunbridge Wells
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Tupi-Guarani
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Turgot
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Turk's-cap lily
Turk's-head
Turk.
Turkestan
Turkey
Turkey red
Turki
Turkic
Turkish
Turkish Empire
Turkish bath
Turkish coffee
Turkish delight
Turkish rug
Turkish tobacco
Turkish towel
Turkmen
Turkoman
Turku
Turner
Turpin
Tuscan
Tuscany
Tuscarora
Tutankhamen
Tutuila
Tver
Twain
Tweed
Tweeddale
Tweedledum and Tweedledee
Tweedsmuir
Twelfth Night
Twelfthtide
Twi
Twickenham
Two Sicilies
Tyburn
Tyche
Tycho
Tyler
Tyndale
Tyndall
Tyndall effect
Tyndareus
Tynwald
Typhoeus
Typhon
Tyr
Tyre
Tyrian
Tyrian purple
Tyrolienne
Tyrone
Tyr
Tyrrell
Tyrrellian Sea
Tyumen
U
U Thant
U bolt
U-boat
U-turn
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Ubangi-Shari
Ubiquitarian
Ucayali
Udall
Udine
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Ugaritic
Ugrian
Ugric
Uhland
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Uinta Mountains
Ujiji
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Ukrainian
Ulbricht
Ulm
Ulpian
Ulster
Ulyanovsk
Ulysses
Umayyad
Umbria
Umbrian
Unamuno
Uncle Sam
Unfederated Malay States
Ungava
Uniat
Union
Unit.
Unitarian
Unitarianism
United Arab Republic
United Arab States
United Kingdom
United Nations
United Press International
United Provinces
United States
United States Navy
United States of America
Univ.
Universal Postal Union
Universalism
Unknown Soldier
Unterwalden
Upashad
Upolu
Upper Austria
Upper Egypt
Upper Silesia
Upper Tunguska
Upper Volta
Uppsala
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Uralian
Uralic
Urania
Uranian
Uranus
Urban II
Urdar
Urdu
Urey
Urfa
Urga
Uriah
Uriel
Urim and Thummim
Urmia
Urquhart
Ursa Major
Ursa Minor
Ursula
Ursuline
Uru.
Uruguay
Urumchi
Ushant
Ushas
Usk
Uspallata Pass
Ust-Kamenogorsk
Utah
Utgard-Loki
Uther
Utica
Uto-Aztecan
Utopia
Utrecht
Utrillo
Uttar Pradesh
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Uxmal
Uzbek
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V-Day
V-E Day
V-J Day
V-mail
V-shaped
V-type engine
V.
V. Rev.
V.A.
V.C.
V.I.
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Valais
Valdai Hills
Valdemar I
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Valkyrie
Valladolid
Valletta
Valley Forge
Vallombrosa
Valois
Valona
Valparaiso
Van
Van Allen belt
Van Buren
Van Diemen's Land
Van Dyck
Van Gogh
Vance
Vancouver
Vandal
Vanderbilt
Vandyke
Vandyke beard
Vandyke brown
Vandyke collar
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Vanir
Vanity Fair
Vanua Levu
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Venusian
Veracruz
Vercelli
Vercingetorix
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Vereeniging
Verein
Vergil
Vermeer
Vermont
Verner's law
Vernoleninsk
Verona
Veronese
Verrazano
Verrocchio
Vertumnus
Verulamium
Verwoerd
Vespasian
Vesper
Vespucci
Vesta
Vesuvius
Veterans Administration
Veterans Day
Viborg
Vic.
Vicar of Christ
Vichy
Vicksburg
Vicky
Vico
Victor Emmanuel III
Victoria
Victoria Cross
Victoria Island
Victoria Land
Victorian
Vidar
Vienna
Vienna sausage
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Vietcong
Vietnam
Vietnam War
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Wake Island
Wakefield
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Waldemar I
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Waldenses
Waldheim
Waldorf salad
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Walfish Bay
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Wall Street
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Wallsend
Walpurgis Night
Walsingham
Walter
Walvis Bay
Wandering Jew
Wanderjahr
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Wanne-Eickel
War Between the States
War of 1812
War of Secession
War of the Austrian Succession
War of the Spanish Succession
Warbeck
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Warrington
Wars of the Roses
Warsaw Pact
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Wartburg
Warwick
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Watling Island
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Wedgwood blue
Wednesday
Wehrmacht
Weichsel
Weimar Republic
Weimaraner
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Welsh terrier
Weltanschauung
Weltpolitik
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Western Roman Empire
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Wild Hunt
Wild West
Wild West show
Wilde
Wilderness
Wilhelm I
Wilhelm II
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Wilkes Land
Woolf
Woolley
Woolworth
Worcester
Worcestershire
Wordsworth
World Bank
World Court
World Health Organization
World Series
World War I
World War II
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Ygerne
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Yokohama
Yom Kippur
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Yorkist
Yorkshire
Yorkshire pudding
Yorkshire terrier
Yorktown
Yoruba
Yosemite Falls
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Young Pretender
Young Turk
Young's modulus
Youngstown
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abnormal
abnormal psychology
abnormality
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aboard
abode
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abolish
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abomasum
abominable
abominate
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aboral
aboriginal
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abort
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abortifacient
abortion
abortionist
abortive
aboulia
abound
about
about ship
about-face
about-ship
above
aboveboard
aboveground
abr.
abra cadabra
abrasive
abreact
abscession
abscond
abseil
absence
absence of mind
absence without leave
absent
absent without leave
absent-minded
acanthopterygian
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acromegaly
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acrostic
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acrylic
acrylic acid
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act curtain
act of God
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all-important
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atom-bomb
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atomic clock
atomic cocktail
atomic energy
atomic heat
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atomic mass unit
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atomic pile
atomic power
atomic structure
atomic theory
atomic volume
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atomic weight
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aurora borealis
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automatic rifle
automatic tracking
automatic transmission
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azimuth circle
azimuthal equidistant projection
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babushka
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baby bond
baby carriage
baby grand
baby spot
baby talk
baby tooth
baby's-breath
baby-blue-eyes
baby-sit
baby-sitter
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baccivorous
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bachelor
bachelor girl
bachelor's degree
bachelorism
bacillary
bacillus
bacitracin
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back country
back door
back down
back formation
back matter
back number
back out
back rest
back road
back scratching
back seat
back stairs
back talk
back to back
back up
back-and-forth
back-pedal
back-seat driver
backache
backbencher
backbend
backbite
backblocks
backboard
backbone
backbreaker
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backchat
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backsheesh
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backstop
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bacteriophage
bacteriostasis
bacteriostat
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bacteroid
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bad blood
bad check
bad debt
bad time
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bade
badge
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badinage
badlands
baker's dozen
bakery
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baking powder
baking soda
baklava
baksheesh
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balance of power
balance of trade
balance rudder
balance sheet
balance spring
balance wheel
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balboa
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balcony
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bald cypress
bald eagle
baldachin
balderdash
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baldpate
baldric
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baleen whale
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balk
balky
ball
ball and chain
ball bearing
ball boy
ball cock
ball game
ball lightning
ball mill
ball of fire
ball valve
ball-and-socket joint
ball-peen hammer
ballad
ballad opera
ballad stanza
ballade
balladeer
balladist
balladmonger
balladry
ballast
ballata
ballerina
ballet
ballflower
ballista
ballistic
ballistic galvanometer
ballistic missile
ballistics
ballocks
ballon
ballon d'essai
ballonet
balloon
balloon jib
balloon sail
balloon tire
balloon vine
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ballot box
ballottement
ballplayer
ballroom
ballroom dancing
balls
bally
ballyhoo
ballyrag
balm
balm of Gilead
balmacaan
balmy
barite
baritone
barium
barium hydroxide
barium oxide
barium sulfate
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bark beetle
barkeeper
barkentine
barker
barking deer
barley
barley sugar
barley water
barleycorn
barm
barmaid
barman
barny
barn
barn dance
barn owl
barn swallow
barnacle
barnacle goose
barney
barnstorm
barnyard
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baron of beef
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baroque
baroque organ
baroscope
barouche
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barracoon
barracuda
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barramunda
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barrel organ
barrel roll
barrel vault
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barrier reef
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baryton
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bas mitzvah
bas-relief
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basal metabolism
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bascinet
bascule
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base hospital
base level
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base on balls
base pay
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basic slag
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bavardage
bawbee
bawcock
bawd
bawdry
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bawdyhouse
bawl
bawl out
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bay leaf
bay lynx
bay oil
bay rum
bay tree
bay window
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bayberry
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bayou
baywood
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bazooka
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bear out
bear up
bear with
bear's-ear
bear's-foot
bearable
bearberry
bearcat
beard
bearded
bearded darnel
bearded lizard
bearded tit
bearded vulture
beardless
bearer
bearing
bearing plate
bearing rein
bearish
bearskin
bearwood
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beastings
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beat down
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beating
beatitude
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beau geste
beau ideal
beau monde
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beauty
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beauty salon
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bed and board
bed chair
bed jacket
bed linen
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bedchamber
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bedstraw  
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bedwarmer  
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bee fly  
bee glue  
bee killer  
bee moth  
bee plant  
bee tree  
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beebread  
beech  
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beechnut  
beef  
beef cattle  
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beefcake  
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belittle
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bell buoy
bell glass
bell heather
bell jar
bell metal
bell pepper
bell tent
bell-bottoms
bell-ringer
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bellbird
bellboy
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belles-lettres
belletrist
bellflower
bellhop
bellicose
bellied
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belligerency
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bellman
bellow
bellows
bellows fish
bells of Ireland
bellwether
bellwort
belly
belly dance
belly flop
belly landing
belly laugh
bellyache
bellyband
bellybutton
bellyful
belomancy
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belonging
belongings
benignity
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benjamin
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bennet
benny
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bent grass
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bentonite
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benzene
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benzene ring
benzidine
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benzoate
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bibber
bibcock
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bibliographer
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bibliotherapy
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bicarbonate of soda
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biconvex
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bicycle pump
bicycle race
bicyclic
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bid price
bid up
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biform
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big business
big cheese
big end
big game
big gun
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big noise
big shot
big stick
big talk
big time
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big tree
big wheel
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bigwig
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bijouterie
billionaire
billon
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billowy
billposter
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billy goat
billycock
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biltong
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binary digit
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binary form
binary star
binary system
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binaural
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binder
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binding energy
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binomial nomenclature
binomial theorem
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binucleate
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biocellate
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bioclimatology
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biodynamics
bioecology
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biophysics
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biopsy
bioscope
bioscopy
biosphere
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birdie
birdlike
birdlime
birdman
birdseed
birefringence
bireme
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birth certificate
birth control
birth rate
birthday
birthday suit
birthmark
birthplace
birthright
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birthstone
birthwort
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bisector
bisectrix
biserrate
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bishopric
bisk
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bismuthinite
bismuthous
bison
bisque
bissextile
bister
bistort
bistoury
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bisulcate
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black belt
black bile
black bindweed
black body
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black bread
black buck
black diamond
black eye
black flag
black fly
black fox
black frost
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black grouse
black guillemot
black hole
black horehound
black knot
black lead
black letter
black light
black magic
black mark
black market
black marketeer
black measles
black mustard
black nightshade
black opal
black pepper
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black power
black pudding
black quarter
black rat
black rot
black rust
black sea bass
black sheep
black spot
black spruce
black tea
black tie
black velvet
black vomit
black walnut
black whale
black widow
black-and-blue
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black-backed gull
black-eyed Susan
black-eyed pea
black-market
black-marketeer
blackamoor
blackball
blackberry
blackbird
blackboard
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blackcock
blackdamp
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blackfellow
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blackheart
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blackleg
blacklist
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blackness
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blackpoll
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blacktail
blackthorn
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bladdernose
bladdernut
bladderwort
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blank wall
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blarney
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blast lamp
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blast-off
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blastogenesis
blastomere
blastopore
blastosphere
blastula
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blaze
blazer
blazing star
blazon
blazonry
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bleachers
bleaching powder
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bleat
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bleeder
bleeder's disease
bleeding
bleeding heart
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blench
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blende
blended whiskey
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blennioid
blenny
blent
blepharitis
blesbok
bless
blessed
blessing
blest
bloater
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bloc
block
block and tackle
block diagram
block lava
block letter
block out
block plane
block print
block tin
blockade
blockage
blockbuster
blockbusting
blocked
blockhead
blockhouse
blocking
blockish
blocky
bloke
blond
blood
blood and thunder
blood bank
blood bath
blood brother
blood cell
blood count
blood donor
blood feud
blood fluke
blood group
blood grouping
blood heat
blood money
blood orange
blood plasma
blood platelet
blood poisoning
blood pressure
blood pudding
blood relation
blood sausage
blood serum
blood sport
blood test
blood transfusion
blood type
blood vessel
blood-and-thunder
blood-red
bloodcurdling
blooded
bloodfin
bloodhound
bloodless
bloodletting
bloodline
bloodmobile
bloodroot
bloodshed
bloodshot
bloodstain
bloodstained
bloodstock
bloodstone
bloodstream
bloodsucker
bloodthirsty
bloody
bloody flux
bloody shirt
bloody-minded
bloom
bloomer
bloomers
bloomery
blooming
bloomy
blooper
blossom
blot
blotch
blotchy
blotter
blotting paper
blotto
blouse
blouson
blow
blow off
blow out
blow over
blow up
blow-by-blow
blower
blowfish
blowfly
blowgun
blowhard
blowhole
blowing
blown
blowout
blowpipe
blowsy
blowtorch
blowtube
blowup
blowy
blowzed
blowzy
blub
blubber
blubberhead
blubbery
blucher
bludge
bludgeon
blue
blue baby
blue blood
blue book
blue cheese
blue chip
blue crab
blue devils
blue fox
blue grouse
blue gum
blue jay
blue jeans
blue laws
blue mold
blue note
blue ointment
blue peter
blue point
blue racer
blue ribbon
blue shark
blue spruce
blue vitriol
blue whale
blue-collar
blue-eyed Mary
blue-eyed grass
blue-green
blue-green algae
blue-pencil
blue-ribbon jury
blue-sky law
bluebell
blueberry
bluebill
bluebird
bluebonnet
bluebottle
bluecoat
bluefish
bluegill
bluegrass
blueing
bluejacket
blueness
bluenose
bluepoint
blueprint
blues
bluestocking
bluestone
bluet
bluetongue
blueweed
bluey
bluff
bluing
bluish
blunder
blunderbuss
blunge
blunger
blunt
blur
blurb
blurt
blush
bluster
bo tree
bobby pin
bobbysocks
bobbysoxer
bobcat
bobolink
bobsled
bobsledding
bobsleigh
bobstay
bobwhite
bocage
boccie
bock beer
bod
bode
bodega
bodgie
bodice
bodiless
bodily
boding
bodkin
body
body blow
body cavity
body corporate
body language
body politic
body snatcher
body stocking
bodycheck
bodyguard
bodywork
boffin
bog
bog asphodel
bog down
bog oak
bogbean
bogey
bogeyman
boggart
boggie
boggle
bogle
bogtrotter
bogus
bogy
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bombastic
bombazine
bombe
bomber
bombproof
bombshell
bombshight
bombycid
bon mot
bon ton
bon vivant
bon voyage
bona fide
bona fides
bonanza
bonbon
bond
bond paper
bondage
bonded
bonded warehouse
bondholder
bondmaid
bondman
bondsman
bondstone
bondswoman
bondwoman
bone
bone ash
bone china
bone meal
bone of contention
bone oil
bone-dry
boneblack
bonefish
bonehead
boner
boneset
bonesetter
boneyard
bonfire
bongo
bonhomie
bonito
bonkers
bonne
bonne bouche
bonne foi
bonnet
bonnet monkey
bonnet rouge
bonny
bonnyclabber
bonsai
bonspiel
bontebok
bonus
bony
bony labyrinth
bonze
bonzer
boo
boo-boo
boob
booby
booby hatch
booby prize
booby trap
boodle
boogeyman
boogie
boogie-woogie
boohoo
book
book club
book end
book jacket
book learning
book of account
book review
book scorpion
book value
bookbinder
bookbindery
bookbinding
bookcase
bookcraft
bookie
booking
booking office
bookish
bookkeeper
bookkeeping
bort
borzoi
boscage
boschbok
boschvark
bosh
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bosky
bosom
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bosomy
boson
bosquet
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bossa nova
bossism
bossy
bosun
bot
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botanical
botanical garden
botanist
botanize
botanomancy
botany
botch
botchy
botel
botfly
both
bother
botheration
bothersome
bothy
botryoidal
bots
bott
bottle
bottle glass
bottle green
bottle party
bottle tree
bottle up
bottleneck
bottom
bottom drawer
bourdon
bourg
bourgeois
bourgeoisie
bourgeon
bourn
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bouse
boustedon
bout
boutique
boutonniere
bovid
bovine
bow
bow compass
bow out
bow saw
bow tie
bow window
bowdlerize
bowel
bowel movement
bower
bowerbird
bowery
bowfin
bowhead
bowie knife
bowing
bowknot
bowl
bowl over
bowlder
bowleg
bowler
bowline
bowling
bowling alley
bowling crease
bowling green
bows
bowman
bowse
bowshot
bowsprit
bowstring
bowstring hemp
bowyer
box
box calf
box camera
box canyon
box coat
box elder
box girder
box kite
box office
box pleat
box seat
box spring
box turtle
box wrench
boxberry
boxboard
boxcar
boxer
boxfish
boxhaul
boxing
boxing glove
boxing ring
boxthorn
boxwood
boy
boy scout
boyar
boycott
boyfriend
boyhood
boyish
boyla
boysenberry
bozo
bp.
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bra
brabble
brace
brace and bit
bracelet
bracer
braces
brach
brachial
brake band
brake drum
brake horsepower
brake lining
brake parachute
brake shoe
brakeman
brakesman
bramble
brambling
brambly
bran
branch
branch line
branch out
branched chain
branchia
branching
branchiopod
brand
brand-new
brandish
brandling
brandy
branks
branle
branny
brant
brash
brashy
brasier
brasilein
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brass
brass band
brass hat
brass knuckles
brass tacks
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brasserie
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brassware
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brattishing
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bravado
brave
bravery
bravissimo
bravo
bravura
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brawl
brawn
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braxy
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brazier
brazil
brazilin
brazilin
breach
breach of promise
breach of trust
bread
bread and butter
bread knife
bread mold
bread-and-butter pickle
breadbasket
breadboard
breadfruit
breadnut
breadroot
breadstuff
breadth
breadthways
breadwinner
break
break and entry
break down
break in
break into
break of day
break out
break through
breeching
breechloader
breed
breeder
breeder reactor
breeding
breeds
breeze
breeze block
breezeway
breezy
bregma
brei
bremsstrahlung
brent
brethren
breve
brevet
breviary
brevier
brevity
brew
brewage
brewer's yeast
brewery
brewhouse
brewing
brewis
brewmaster
briar
briarroot
briarwood
bribe
bribery
bric-a-brac
brick
brick cheese
brick red
brickbat
brickkiln
bricklayer
bricklaying
brickle
brickwork
bricky
brickyard
bricole
bridal
bridal wreath
bride
bride price
bridegroom
bridesmaid
bridewell
bridge
bridge deck
bridge lamp
bridgeboard
bridgehead
bridgework
bridging
bridle
bridle path
bridlewise
bridoon
brief
briefcase
briefing
briefless
briefs
brier
brierroot
brierwood
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brigadier
brigadier general
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bright
brighten
brightness
brightwork
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brilliance
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brilliant
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brimstone
brindle
brindled
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broadbill
broadbrim
broadcast
broadcaster
broadcasting
broadcloth
broaden
broadleaf
broadloom
broadside
broadsword
broadtail
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brocatel
broccoli
broch
brochette
brochure
brock
brocket
brogan
brogue
broider
broil
broiler
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broken
broken heart
broken wind
broken-down
brokenhearted
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brokerage
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bromeosin
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bromide
bromide paper
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brominate
bromine
bromism
bromo-
bromoform
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bronchia
bronchial
bronchial pneumonia
bronchial tube
bronchiectasis
bronchiole
bronchitis
broncho-
bronchopneumonia
bronchoscope
bronchus
bronco
broncobuster
bronze
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brood
brooder
broody
brook
brook trout
brookite
brooklet
brooklime
brookweed
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broomcorn
broomrape
broomstick
bros.
brose
broth
brothel
brother
brother-in-law
brotherhood
brotherly
brougham
brought
brouhaha
brow
browband
browbeat
brown
brown algae
brown bear
brown belt
bullet
bulletin
bulletin board
bulletproof
bullfight
bullfighter
bullfinch
bullfrog
bullhead
bullheaded
bullhorn
bullion
bullish
bullnose
bullock
bullpen
bullring
bullshit
bullwhip
bully
bully beef
bullyboy
bullyrag
bulrush
bulwark
bum
bum's rush
bumblaliff
bumble
bumblebee
bumbledom
bumbling
bumboat
bumf
bumkin
bummalo
bummer
bump
bump into
bump off
bumper
bumpkin
bumptious
bumpy
bun
bunch
bunch grass
bunch light
bunchy
bunco
buncombe
bund
bundle
bundle of isoglosses
bundle up
bung
bungalow
bunghole
bungle
bunion
bunk
bunk bed
bunker
bunkhouse
bunkmate
bunko
bunkum
bunny
bunny hug
bunt
bunting
buntline
bunya-bunya
bunyip
buoy
buoyage
buoyancy
buoyant
buprestid
bur
bur marigold
bur oak
bur reed
buran
burble
burbot
burden
burden of proof
burdened
burdensome
burdock
bureau
bureaucracy
bureaucrat
bureaucratic
bureaucratize
burette
burg
burgage
burse
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burgher
burglar
burglar alarm
burglarious
burglarize
burglary
burgle
burgomaster
burgonet
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burgrave
burial
burial ground
burial mound
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burin
burka
burke
burl
burlap
burlesque
burletta
burley
burly
burn
burn in
burn off
burn out
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burned out
burned-out
burner
burnet
burning
burning bush
burning glass
burnish
burnisher
burnoose
burnout
bushranger
bushlit
bushwa
bushwhack
bushwhacker
bushy
busily
business
business English
business agent
business college
business cycle
business end
business suit
businesslike
businessman
businesswoman
busk
buskin
buskined
busload
busman
busman's holiday
buss
bust
bust-up
bustard
bustee
buster
bustle
busty
busy
busybody
busyness
busywork
but
butacaine
butadiene
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butanol
butanone
butch
butcher
butcher knife
butcher paper
butcher shop
butcher's saw
butcher's-broom
butyl alcohol
butylene
butyraseous
butyraldehyde
butyrate
butyric acid
butyric
buxom
buy
buy in
buy into
buy off
buy out
buy up
buyer
buyers’ market
buying power
buzz
buzz bomb
buzz off
buzz saw
buzzard
buzzer
bwana
bx.
by
by and by
by and large
by-
by-and-by
by-bidder
by-blow
by-election
by-line
by-play
by-product
by-your-leave
bye
bye-bye
byelaw
bygone
bylaw
bypass
bypath
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byroad
byssinosis
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cable railway
cable release
cable ship
cable stitch
cablegram
cablet
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cabrilla
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cadastre
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cadaverous
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cedrus fly
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cedilla
ceclonic
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cecmury mark
tendent
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ceclium orange
tendium yellow
tendre
tenduceus
tenducity
tenducous
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cal
cairn
cairngorm
caisson
caisson disease
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cajolery
cajuput
cake
cakes and ale
cakewalk
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calabash
calaboost
caladium
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calamander
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calamint
calamite
calamitous
calamity
calamondin
calamus
calash
calathus
calaverite
calc-
calc-tufa
calcaneus
calcar
calcareous
calcariferous
calceiform
calceolaria
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calciferous
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calcine
calcite
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calcium arsenate
calcium carbide
calcium carbonate
calcium chloride
calcium cyanamide
calcium cyclamate
calcium hydroxide
calcium light
calcium oxide
calcium phosphate
calculable
calculate
calculated
calculated risk
calculating
calculating machine
calculation
calculator
calculous
calculus
calculus of variations
caldarium
caldera
caldron
calefacient
calefaction
calefactory
calendar
calendar clock
calendar day
calendar month
calendar watch
calendar year
calender
calends
calendula
calenture
calf
calf love
calf's-foot jelly
calfskin
 caliber
calibrate
calibre
calices
caliche
calice
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calico bush
calico cat
calif
califate
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caliginous
calipash
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caliphate
calisaya
calisthenics
calix
calk
call
call box
call down
call forth
call girl
call in
call letters
call loan
call money
call number
call off
call out
call rate
call slip
call up
call-board
call-up
calla
callable
callant
callboy
caller
calli-
calligraphy
calling
calling card
calliope
calliopsis
callipash
calliper
callipygian
callithenics
callosity
callous
callow
callus
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calumny
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calvaria
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calvities
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calyx
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camail
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cambium
cambogia
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cambrel
cambric
came
camel
camel's hair
camelback
capital account
capital expenditure
capital gain
capital gains tax
capital goods
capital levy
capital punishment
capital ship
capital stock
capital surplus
capitalism
capitalist
capitalistic
capitalization
capitalize
capitally
capitate
capitation
capitol
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capitulary
capitulate
capitulation
capitulum
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capote
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cappuccino
capreolate
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caprice
capricious
caprification
caprifig
caprifoliaceous
caprine
capriole
caproic acid
caps.
capsaicin
capsicum
capsize
capstan
capstan bar
capstan lathe
capstone
capsular
capsulate
capsule
capsulize
captain
captain of industry
captain's chair
captainship
caption
captious
captivate
captive
captive balloon
captivity
captor
capture
capuche
capuchin
caput
capybara
car
car coat
car park
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carabin
carabineer
carabiniere
caracal
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caramelize
carangid
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carat
caravan
caravansary
caravel
caraway
carbamate
carbamic acid
carbamidine
carbn
carbazole
carbide
carbine
carbineer
carbo-
carbohydrate
carbolated
carbolic acid
carbolize
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carbon 14
carbon black
carbon copy
carbon cycle
carbon dating
carbon dioxide
carbon disulfide
carbon microphone
carbon monoxide
carbon paper
carbon process
carbon steel
carbon tetrachloride
carbon tissue
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carbonate
carbonation
carbonic
carbonic acid
carbonic-acid gas
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carbonization
carbonize
carbonous
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carbonyl chloride
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carboxylase
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carboxylic acid
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carbuncle
carburet
carburetor
carburize
carbamino
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carcinogen
carcinoma
carcinomatosis
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card catalog
card index
card punch
card table
card vote
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cardamom
cardboard
cardholder
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cardialgia
cardigan
cardinal
cardinal flower
cardinal number
cardinal points
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carditis
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careworn
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carhop
caribou
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carling
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carman
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carpel
carpenter
carpenter ant
carpenter bee
carpenter moth
carpentry
carpet
carpet beetle
carpet bombing
carpet knight
carpet shark
carpet slipper
carpet sweater
carpet tack
carpetbag
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carpophore
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carpospore
carpus
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carrefour
carrel
carrage

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carriage dog
carriage horse
carriage house
carriage trade
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carrick bitt
carrier
carrier pigeon
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carronade
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carry away
carry back
carry off
carry on
carry out
carry over
carry through
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carrying-on
carse
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cart horse
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carte blanche
carte de visite
carte du jour
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cartilage bone
cartilaginous
cartload
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cartography
cartomancy
carton
cartoon
cartouche
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cartridge brass
cartridge clip
cartridge paper
cartridge pen
cartulary
cartwheel
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carve up
carvel
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carven
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carving knife
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caryo-
caryophyllaceous
caryopsis
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casaba
cascabel
cascade
cascara
cascara sagrada
cascarilla
case
case history
case knife
case law
case shot
casease
caseate
caseation
casebook
casebound
casefy
casein
caseinogen
casemaker
casemate
casement
caseose
caseous
casern
casework
caseworm
cash
cash crop
cash discount
cash in
cash on delivery
cash register
cash-and-carry
cashbook
cashbox
cashew
cashier
cashier's check
cashmere
casing
casino
cask
casket
casque
cassaba
cassareep
cassation
cassava
casserole
cassette
cassia
cassimere
cassino
cassis
cassiterite
cassock
cassoulet
cassowary
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cast about
cast down
cast iron
cast steel
cast-iron
cast-off
castanets
castaway
caste
caste mark
castellan
castellany
castellated
castellatus
caster
castigate
casting
casting vote
castle
castle in the air
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catechist
catechize
catechol
catechu
catechumen
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categorical imperative
categorize
category
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catenary
catenate
catenoid
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cater-cousin
cateran
catercorner
caterer
catering
caterpillar
caterpillar hunter
caterwaul
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catgut
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catharsis
cathartic
cathead
cathedral
cathepsin
catheter
catheterize
cathexis
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cathode ray
cathode-ray tube
cathodic protection
cathodoluminescence
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catholicity
catholicize
catholicion
cathouse
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causeway
causey
caucic
cauterant
cauterize
cautery
cauton
cauton money
cautionary
cautious
cavalcade
cavalier
cavalierly
cavalla
cavalry
cavalry twill
cavalryman
cavatina
cave
cave art
cave dweller
cave in
cave-in
caveat
caveat emptor
caveator
cavefish
caveman
cavendish
cavern
caverous
cavesson
cavetto
caviar
cavicorn
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cell division
cell membrane
cell wall
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cellophane
cellular
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centennial
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center of buoyancy
center of curvature
center of effort
center of flotation
center of gravity
center of mass
center of percussion
center of pressure
center of symmetry
center punch
centerboard
centering
centerpiece
centesimal
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centillion
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centipede
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central angle
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central heating
central nervous system
central sulcus
centralism
centrality
centralization
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cercaria
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cerotic acid
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certificate of deposit
certificate of incorporation
certificate of origin
certificate of stock
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certified check
certified mail
certified milk
certified public accountant
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cerussite
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cervical
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cervine
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chain gang
chain letter
chain lightning
chain locker
chain mail
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chain reactor
chain rule
chain saw
chain shot
chain stitch
chain store
chain-smoke
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chair car
chairborne
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chairmanship
chairwoman
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chaise longue
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chalcedony
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chalcocite
chalcopyrite
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chalice
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chalk out
chalk talk
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chalkboard
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chaloner
chalutz
chalybeate
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chamber orchestra
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chameleon
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change of life
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change-up
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changeover
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channel iron
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chauffer
chauffeur
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cheap-jack
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check list
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check valve
checkbook
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checkerbloom
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checklist
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checkoff
checkpoint
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checkroom
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checks and balances
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cheesewood
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chemical engineering
chemical potential
chemical warfare
chemiluminescence
chemin de fer
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chemosphere
chemosynthesis
chemotaxis
chemotherapy
chemotropism
chemurgy
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chenopod
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cherry bomb
cherry laurel
cherry picker
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chervil
chervonets
chess
chessboard
chessman
chest
chest of drawers
chest of viols
chest voice
chest-on-chest
chesterfield
chestnut
chesty
chetah
cheval glass
cheval-de-frise
chevalier
chevet
cheviot
chevrette
chevron
chevrotain
chevy
chew
chew out
chief petty officer
chief warrant officer
chiefly
chieftain
chiffchaff
chiffon
chifforobe
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chignon
chigoe
chilblain
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child psychology
child's play
childbearing
childbed
childbed fever
childbirth
childe
childhood
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chili con carne
chili pepper
chili sauce
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chinch bug
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chinquapin
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chip log
chip shot
chipboard
chipmunk
chipped beef
chipper
chipping sparrow
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chiromancy
chiropodist
chiropracy
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chiropractor
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chirpy
chloroprene
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chlorothiazide
chlorous
chlorous acid
chlorpromazine
chlortetracycline
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chock-a-block
chock-full
chocolate
choice
choir
choir loft
choir school
choirboy
choirmaster
choke
choke coil
choke up
choke-full
chokeberry
chokebore
chokeherry
chokedamp
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chowder
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chromatology
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chrome alum
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chrome red
chrome steel
chrome yellow
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chrominance
chromite
chromium
chromium steel
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chromomere
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chromophore
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chronic alcoholism
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chronicle play
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chronopher
chronoscope
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cinnamon bear
cinnamon stone
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cipolin
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circuit binding
circuit breaker
circuit judge
circuit rider
circuitous
circuitry
circuity
circular
circular function
circular measure
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circular polarization
circular saw
circular triangle
circularize
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circulating capital
circulating decimal
circulating library
circulating medium
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circumambient
circumambulate
circumbendibus
circumcise
circumcision
circumference
circumferential
circumflex
circumfluent
circumfluous
circumfuse
circumgyration
circumjacent
circumlacation
circumlunar
circumnavigate
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circumpolar
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circumspect
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circumstance
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circumstantiality
circumstantiate
circumvallate
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clansman
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clap on
clapboard
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clasp knife
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class conscious
class struggle
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classical conditioning
classical economics
clean-limbed
clean-shaven
cleaner
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cleaning woman
cleanly
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cleansing tissue
cleanup
clear
clear away
clear off
clear out
clear up
clear-air turbulence
clear-cut
clear-eyed
clear-sighted
clearance
clearcole
clearheaded
clearing
clearing house
clearly
clearness
clearstory
clearway
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cleavage
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click beetle
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clientage
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cliff swallow
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clothespin
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cloud chamber
cloud cover
cloud rack
cloud-capped
cloudberry
cloudburst
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cloudland
cloudless
cloudlet
cloudscape
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clove hitch
clove pink
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cloven hoof
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cloverleaf
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clown white
clownery
cloy
cloying
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club chair
club foot
club moss
club sandwich
club steak
club topsail
clubbable
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clubfoot
clubhaul
clubhouse
clubman
clubwoman
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clueless
clumber spaniel
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ccoacher
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coin box
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cold comfort
cold cream
cold cuts
cold duck
cold feet
cold frame
cold front
cold light
cold pack
cold rubber
cold shoulder
cold snap
cold sore
cold steel
cold storage
cold sweat
cold turkey
cold war
cold water
cold wave
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cold-hearted
cold-shoulder
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collective bargaining
collective farm
collective noun
collective ownership
collective security
collective unconscious
collectivism
collectivity
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collector
colleen
college
collegian
collegiate
collegiate church
collegiate institute
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collimator
collinear
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collinsia
collision
collision course
collision insurance
collision mat
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collogue
colleague
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colpitis
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combat fatigue
combat team
combat zone
combatant
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comber
combination
combination lock
combination tone
combinative
combinatorial analysis
combinatorial topology
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combining form
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combustion
combustion chamber
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come-on
comeback
comedian
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comedietta
comedo
comedown
comedy
comedy of manners
comely
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comestible
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comeuppance
comfit
comfort
comfort station
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comforter
comfrey
comfy
comic
comic book
comic opera
comic relief
comic strip
comical
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comma bacillus
comma fault
comma splice
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command car
command guidance
command module
command paper
command performance
command post
commandant
commandeer
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commander in chief
commanding
commanding officer
commandment
commissioner
commissure
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committal
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committeeman
committeewoman
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common chord
common cold
common council
common denominator
common divisor
common fraction
common ground
common knowledge
common law
common logarithm
common man
common measure
common multiple
common noun
common people
common pleas
common prayer
common property
common room
common school
common scold
common sense
common stock
common time
common touch
common year
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commonality
commonalty
commoner
commonly
commonplace
commonplace book
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commonsense realism
commonweal
commonwealth
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communications satellite
communications zone
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communion cloth
communion of saints
communism
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community chest
community college
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complex sentence
complex variable
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compliancy
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complication
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complicity
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complimentary
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comprise
compromise
compte rendu
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compulsory
compunction
compurgation
computation
compute
computer
computer typesetting
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con amore
con brio
con dolore
con fuoco
con game
con man
con moto
con spirito
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concavo-convex
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concelebrate
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conciseness
concision
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conclusive
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concoction
concomitance
concomitant
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concordant
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conductance
conduction
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conductivity
conductor
conduit
conduplicate
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coneflower
coney
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confection
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connoisseur
connotation
connotative
connote
connubial
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consanguinity
conscience
conscience clause
conscience money
conscience-stricken
conscientious
conscientious objector
conscionable
conscious
consciousness
conscript
conscript fathers
conscription
consecrate
consecration
consecution
consecutive
consensual
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consensus gentium
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consentient
consequence
consequent
consequential
consequently
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conservation of energy
conservation of mass
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conservatism
conservative
conservatoire
conservator
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consignment
consignor
consist
consistence
consistency
consistent
consistory
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consol
consolation
consolation prize
consolatory
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consolidation
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disciplinarian
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discipline
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disclaimer
disclamation
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discoid
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discombobulate

discomfit

discomfiture

discomfort

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discommend

discommodate

discommodity

discommone

discompose

discomposure

disconcert

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disconformity

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disconnection

disconsider

disconsolate

discontent

discontented

discontinuance

discontinuation

discontinue

discontinuity

discontinuous

discophile

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discordance

discordancy

discordant

discotheque

discount

discount broker

discount house

discount rate

discount store

discountenance

discounter

discourage

discouragement

discourse

discourteous

discourtesy

discovers

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discoverer

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district court
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do up
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do without
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do-gooder
do-goodism
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do-nothing
do-nothingism
do-or-die
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dobbin
dog rose
dog sled
dog tag
dog's-tail
dog's-tongue
dog-day cicada
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dog-eat-dog
dog-tired
dogbane
dogberry
dogcart
dogcatcher
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dogfight
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dollarfish
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draft dodger
draft horse
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drag link
drag race
drag sail
drag up
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dragnet
dragoman
dragon
dragon tree
dragon's blood
dragonet
dragonfly
dragonhead
dragonnade
dragonroot
dragoon
dragrope
dragster
drain
drainage
drainage basin
drainage board
drainpipe
drake
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drama
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dramatic irony
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dramatis personae
dramatist
dramatization
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draper
drapery
drastic
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dratted
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draughtboard
draughts
draughtsman
draughty
draw
draw in
draw off
draw on
draw out
draw poker
draw up
drawback
drawbar
drawbridge
drawee
drawer
drawers
drawing
drawing account
drawing board
drawing card
drawing pin
drawing room
drawknife
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drawn butter
drawn work
drawplate
drawshave
drawstring
drawtube
dray
drayage
drayman
dread
dreadful
dreadfully
dreadnought
dream
dream analysis
dream up
dream vision
dreamer
dreamland
dreamworld
dreamy
drear
dreary
dredge
dredge up
dredger
dredging machine
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dress
dress circle
dress coat
dress down
dress parade
dress rehearsal
dress shield
dress shirt
dress suit
dress uniform
dress up
dressage
dresser
dressing
dressing gown
dressing room
dressing sack
dressing station
dressing table
dressing-down
dressmaker
dressy
drew
dribble
driblet
dribs and drabs
dried
dried-up
drier
dry-bulb thermometer
dry-clean
dry-nurse
dry-salt
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dryasdust
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drying
drying oil
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drypoint
drysalter
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dual-purpose
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dubitation
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ducks
ducks and drakes
ducktail
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duplicature
duplicity
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durmast
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dusky
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dust bowl
dust cover
dust devil
dust jacket
dust mop
dust shot
dust storm
dustcloth
duster
dustheap
dustman
dustpan
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dustup
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dutiable
dutiful
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duty-free
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duvetyn
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dwarf cornel
dwarf mallow
dwarf star
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dwell on
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dwelling house
dwelling place
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dyed-in-the-wool
dyeing
dyeline
dyer's-weed
dyestuff
dyewood
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dynamism
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dysgraphia
dyslalia
dyslexia
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dysphoria
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dyspnea
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each other
eager
eager beaver
eagle
eagle boat
eagle eye
eagle owl
eagle ray

eagle-eyed

eaglestone

eaglet

eaglewood

eagre
ealdorman

ear

ear lobe

ear shell

ear trumpet

ear-piercing

ear-splitting

earache

eardrop

eardrum

eared

earflap

earful

earing

ear

earlap

earl

earl

earldom

early

early bird

earmark

earmuff

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earned income

earnest

earnest money

earnings

earphone

earpiece

earplug

earreach

earring

earshot
earth
earth inductor compass
earth mother
earth pillar
earth science
earthborn
earthbound
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earthenware
earthiness
earlight
earthling
earthly
earthman
earthnut
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earthshaker
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east by south
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eastward
eastwardly
eastwards
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easygoing
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eat out
eat up
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eatables
eatage
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eau de Javelle
eau de vie
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ebb tide
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ebullition
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eccentricity
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ecclesiastical law
ecclesiastical mode
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echinoid
echinus
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echo sounder
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echolocation
echopraxia
echovirus
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eclogue
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economic determinism
economic geography
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ecosystem
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ectomorph
ectoparasite
ectophyte
ectopia
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ectoplasm
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edge tool
edgebone
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edgeways
edgewise
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edgy
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effervesce
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efficacy
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efficient cause
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egg roll
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egg tooth
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electric charge
electric current
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electric field
electric furnace
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electric needle
electric organ
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electric ray
electric shock
electric storm
electric thermometer
electric torch
electric wave
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electrochemistry
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electromagnetic wave
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electron gun
electron lens
electron microscope
electron multiplier
electron optics
electron telescope
electron tube
electron-ray tube
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electronic data processing
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electroscope
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exuberant
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faience
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fainthearted
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fair game
fair play
fair sex
fair trade
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fair-minded
fair-spoken
fair-trade
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fairing
fairish
fairlead
fairly
fairway
fairy
fairy godmother
fairy ring
fairy tale
fairyland
fait accompli
faîtes vos jeux
fallout
fallow
fallow deer
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false alarm
false cirrus
false dawn
false face
false front
false horizon
false imprisonment
false keel
false relation
false step
false teeth
false vampire
false-card
falsehood
falsetto
falsework
falsify
falsity
faltboat
falter
fam.
fame
famed
familial
familiar
familiar spirit
familiarity
familiarize
family
family Bible
family circle
family court
family doctor
family man
family name
family planning
family skeleton
family tree
famine
famish
famished
famous
famulus
fan
fan dance
fan mail
fan palm
fan tracery
fan vaulting
fan window
fan worm
fan-tan
fanatic
fanatical
fanaticism
fanaticize
fancied
fancier
fanciful
fancy
fancy diving
fancy dress
fancy man
fancy woman
fancy-free
fancywork
fandango
fane
fanfare
fanfaron
fanfaronade
fang
fango
fanion
fanjet
fanlight
fanny
fanon
fantail
fantasia
fantasist
fantasize
fantasm
fantast
fantastic
fantastically
fantasy
fantoccini
fantom
faqir
far
far-famed
far-fetched
far-flung
far-gone
far-off
far-reaching
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faradism
faradize
faradimeter
farandole
faraway
farce
farceur
farceuse
farci
farcical
farcy
fard
fardel
fare
fare-thee-well
farewell
farfetched
farina
farinaceous
farinose
farl
farm
farm belt
farm hand
farm out
farmer
farmer cheese
farmer-general
farmhand
farmhouse
farming
farmland
farmstead
farmyard
famesol
faro
farouche
farrago
farrier
fanriery
farrow
fath.
fathead
father
father confessor
father figure
father image
fatherhood
fatherland
fatherless
fatherly
fathom
fathomless
fatidic
fatigue
fatigued
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fatness
fatso
fatten
fattish
fatty
fatty acid
fatty degeneration
fatty oil
fatuous
fatuity
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faubourg
faucal
fauces
faucet
faugh
fault
fault plane
faultfinder
faultfinding
faultless
faulty
faun
fauna
faute de mieux
fauteuil
fau pas
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favor
favorable
favored
favorite
favorite son
favoritism
favour
favourable
favourite
favouritism
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faze
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fealty
fear
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fearfully
fearless
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fearsome
feasible
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feast day
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feather
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feather duster
feather grass
feather palm
feather star
feather-veined
featherbedding
featherbrain
feathercut
feathered
featheredge
featherhead
feathering
feathers
featherstitch
featherweight
feathery
featly
feature
feature-length
featured
feminine caesura
feminine ending
feminine rhyme
femininity
feminism
feminize
femme
femme de chambre
femme fatale
femoral
femur
fen
fence
fence-sitter
fencer
fencible
fencing
fend
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fenestra
fenestrated
fenestration
fenland
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fennel
fennelflower
fenny
fenugreek
feoff
feoffee
fer-de-lance
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ferbam
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ferity
fermata
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fermentation
fermentative
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fermium
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ferm seed
fernery
ferocious
ferocity
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ferreous
ferret
ferret badger
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ferric oxide
ferricyanic acid
ferricyanide
ferriferous
ferrite
ferritin
ferro-
ferrocene
ferrochromium
ferroconcrete
ferrocyanic acid
ferrocyanide
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ferromagnesian
ferromagnetic
ferromagnetism
ferromanganese
ferrosilicon
ferrotype
ferrous
ferruginous
ferrule
ferry
ferryboat
ferryman
fertile
fertility
fertility cult
fertility symbol
fertilization
fertilize
fertilizer
ferula
ferule
fervency
fervent
fervid
fever
fever blister
fever heat
fever pitch
fever therapy
fever tree
feverfew
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feverous
feverroot
feverwort
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fiasco
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fiat money
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fiber glass
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fibrillation
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fibrinogen
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fibrinolysis
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fibroblast
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fibroma
fibrosis
fibrous
fibrovascular
fibster
fibula
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fichu
fickle
fico
fictile
fictional
fictionalize
fictionist
fictitious
fictive
fid
fiddle
fiddle pattern
fiddle-de-dee
fiddle-faddle
fiddlehead
fiddler
fiddler crab
fiddlestick
fiddlewood
fiddling
fideicommissary
fideicommissum
fideism
fidelity
fidge
fidget
fidgety
fiducial
fiduciary
fidus Achates
fie
fief
field
field army
field artillery
field battery
field captain
field corn
field day
field emission
field event
field glass
field glasses
field goal
field guide
field gun
field hockey
field hospital
field magnet
field marshal
field mouse
field of force
field of view
field of vision
field officer
field spaniel
field trial
field trip
field winding
field work
fielder
fieldfare
fieldpiece
fieldsman
fieldstone
fieldwork
fiend
fiendish
fierce
fieri facias
fiery
fiery cross
fiesta
fife
fife rail
fifteen
fifteenth
fifth
fifth column
fifth wheel
fiftieth
fifty
fifty-fifty
fig
fig leaf
fig marigold
fig.
fight
fighter
fighter-bomber
fighting chance
fighting cock
fighting fish
fighting top
figment
figural
figurant
figurate
figurate number
figuration
figurative
figure
figure of eight
figure of speech
figure on
figure out
figure skating
figure-ground
figured
figured bass
figurehead
figurine
figwort
filagree
filament
filamentary
filamentous
filar
filaria
filaria
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filature
filbert
filch
file
filefish
filet
filet lace
filet mignon
filial
filiate
filiation
filibeg
filibuster
filicide
filiform
filigree
filigreed
filing
filing clerk
filings
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finical
finicking
finicky
fining
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finished
finishing school
finite
finite verb
finitude
fink
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finned
finny
fino
finochio
fiori
fiorin
fioritura
fipple
fipple flute
fir
fire
fire alarm
fire ant
fire apparatus
fire balloon
fire beetle
fire blight
fire brigade
fire clay
fire company
fire control
fire department
fire drill
fire engine
fire escape
fire extinguisher
fire fighter
fire hydrant
fire insurance
fire irons
fire marshal
fire opal
fire power
fire red
fire resistance
fire sale
fire screen
fire ship
fire station
fire tower
fire trench
fire wall
fire-cure
fire-eater
fire-new
fire-resistant
firearm
fireback
fireball
firebird
fireboard
fireboat
firebox
firebrand
firebrat
firebreak
firebrick
firebug
firecracker
firecrest
firedamp
firedog
firedrake
firefly
fireguard
firehouse
fireless cooker
firelock
fireman
fireplace
fireplug
firepower
fireproof
fireproofing
firer
fireside
firestone
firetrap
firewarden
firewater
fireweed
firsthand  
firstling  
firstly  
firth  
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fiscal  
fiscal year  
fish  
fish and chips  
fish cake  
fish fry  
fish hawk  
fish joint  
fish ladder  
fish louse  
fish meal  
fish out  
fishbolt  
fishbowl  
fisher  
fisherman  
fisherman's bend  
fishery  
fisheye lens  
fishgig  
fishhook  
fishing  
fishing rod  
fishing smack  
fishing tackle  
fishmonger  
fishnet  
fishplate  
fishskin disease  
fishtail  
fishwife  
fishworm  
fishy  
fissi-  
fissile  
fission  
fission bomb  
fissionable  
fissiparous  
fissirostral  
fissure  
fissure of Rolando  
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fizzle
fizzy
fjeld
fjord
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fl. dr.
fl. oz.
flabbergast
flabby
flabellate
flabellum
flaccid
flack
flacon
flag
flag day
flag of convenience
flag of truce
flag officer
flag rank
flag-waving
flagella
flagellant
flagellate
flagelliform
flagellum
flageolet
flagging
flaggy
flagitious
flagman
flagon
flagpole
flagrant
flagrante delicto
flagship
flagstaff
flagstone
flail
flair
flak
flak jacket
flake
flake out
flake white
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flavourful
flavouring
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flawy
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flaxseed
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flea beetle
flea market
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fleabag
fleabane
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fleam
fleawort
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fleecy
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flesh
flesh and blood
flesh color
flesh fly
flesh wound
flesher
fleshings
fleshly
fleshpots
fleshy
fletch
fletcher
fleur-de-lis
fleurette
fleuron
flirtation
flirtatious
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flitch
flite
flitter
flittermouse
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float
float glass
float-feed
floatable
floatage
floatation
floater
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floating dock
floating heart
floating island
floating policy
floating rib
floating stock
floatplane
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floatstone
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flocculate
floccule
flocculent
flocculus
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flocky
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flogging
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flood control
flood insurance
flood lamp
flood plain
flood tide
flooded
fluid mechanics
fluid ounce
fluid pressure
fluidextract
fluidics
fluidize
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fluky
flume
flummery
flummox
flump
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flunkey
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fluorescence
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fluorescent lamp
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fluoride
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fluorocarbon
fluorometer
fluoroscope
fluoroscopy
fluorosis
flurspar
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fluster
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flux density
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fly
fly agaric
fly ash
fly casting
fly gallery
fly rod
fly sheet
fly-by-night
fly-fish
flyaway
flyback
flyblow
flyblown
flyboat
flycatcher
flyer
flying
flying boat
flying bomb
flying boxcar
flying bridge
flying buttress
flying circus
flying column
flying doctor
flying dragon
flying field
flying fish
flying fox
flying frog
flying gurnard
flying jib
flying jib boom
flying lemur
flying lizard
flying machine
flying mare
flying phalanger
flying saucer
flying squad
flying squirrel
flying start
flying wing
flyleaf
flyman
flyover
flypaper
flyspeck
flyte
flytrap
flyweight
flywheel
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foam
foam rubber
foamflower
foamy
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fob off
focal
focal infection
focal length
focal plane
focal point
focal ratio
focalize
focus
fodder
foe
foehn
foeman
foetation
foeticide
foetid
foetus
fog
fog bank
fog bell
fog drip
fog light
fog signal
folk tale
folk-rock
folklore
folkmoot
folksy
folkway
folkways
foll.
follicle
follicle-stimulating hormone
folliculin
follow
follow out
follow through
follow up
follow-through
follow-up
follower
following
folly
foment
fomentation
fond
fondant
fondle
fondly
fondness
fondue
fons et origo
font
fontanel
food
food chain
food poisoning
foodstuff
foofaraw
fool
fool's cap
fool's errand
fool's gold
fool's paradise
fool's-parsley
foolery
foolhardy
foolish
foolproof
foolscap
foot
foot brake
foot fault
foot rot
foot rule
foot soldier
foot warmer
foot-and-mouth disease
foot-candle
foot-lambert
foot-pound
foot-pound-second
foot-poundal
foot-ton
footage
football
footboard
footboy
footbridge
footcloth
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footer
footfall
footgear
foothill
foothold
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footlight
footlights
footling
footlocker
footloose
footman
footmark
footnote
footpace
footpad
footpath
footplate
footprint
footrace
footrest
footrope
footsie
footslog
footsore
footstalk
footstall
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foppery
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forasmuch as
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forbearance
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forbidden
forbidden fruit
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forbore
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forby
force
force majeure
force pump
force-feed
forced
forced landing
forced march
forceful
forcemeat
forceps
forehead
foreign
foreign affairs
foreign aid
foreign bill
foreign correspondent
foreign exchange
foreign minister
foreign mission
foreign office
foreign service
foreign-born
foreigner
foreignism
forejudge
foreknow
foreknowledge
forelady
foreland
foreleg
forelimb
forelock
foreman
foremast
foremost
forename
forenamed
forenoon
forensic
forensic chemistry
forensic medicine
forensic psychiatry
forensics
foreordain
foreordination
forepart
forepaw
forepeak
foreplay
forepleasure
forequarter
forereach
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forerunner
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foresail
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foreshadow
foreshank
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foreshorten
foreshow
foreside
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foreskin
forespeak
forespent
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forest ranger
forest reserve
forestage
forestall
forestation
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forestaysail
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forestry
foretaste
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forethought
forethoughtful
foretime
foretoken
foretooth
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forewoman
foreword
foreworn
foreyard
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forfeiture
forfend
forficate
forgat
forgather
forgave
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forgery
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forget-me-not
forgetful
forging
forgive
forgiven
forgiveness
forgiving
forgo
forgot
forgotten
forint
forjudge
fork
fork out
forked
forked lightning
forklift
forlorn
forlorn hope
form
form class
form drag
form genus
form letter
formal
formal cause
formal logic
formaldehyde
formalin
formalism
formality
formalize
formally
formant
format
formate
formation
formative
forme
former
formerly
formfitting
formic
formic acid
formicary
formication
formidable
formless
formula
forty
forty winks
forty-five
forty-four
forty-niner
fortyish
forum
forward
forward delivery
forward pass
forward quotation
forward-looking
forwarder
forwarding
forwardness
forwards
forwent
forwhy
forworn
forzando
fossa
fosse
fossette
fossil
fossiliferous
fossilize
fossorial
foster
foster brother
foster child
foster home
foster sister
fosterage
fosterling
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fought
foul
foul play
foul shot
foul up
foul-mouthed
foul-up
foulard
foulmouthed
foulness
foumart
fowling
fowling piece
fox
fox grape
fox hunting
fox squirrel
fox terrier
fox trot
fox-trot
foxed
foxglove
foxhole
foxhound
foxing
foxtail
foxy
foyer
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fractional
fractional currency
fractional distillation
fractionate
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fractocumulus
fractostratus
fracture
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fraenum
frag
fragile
fragment
fragmental
fragmentary
fragmentation
fragmentation bomb
fragrance
fragrant
frail
frailty
fraise
frambesia
framboise
frame
frame aerial
frame house
frame line
frame of reference
frame-up
framework
framing
franc
franc-tireur
franchise
francium
francolin
frangible
frangipane
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frankalmoign
frankforter
frankfurter
frankincense
franklin
franklinite
frankly
frankness
frankpledge
frantic
frap
frater
fraternal
fraternal insurance
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fraternity house
fraternize
fratricide
fraud
fraudulent
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fraxinella
fray
frazil
frazzle
frazzled
freak
freak of nature
freak out
freakish
freaky
freckle
freckle-faced
freckly
free
free agent
free alongside ship
free association
free balloon
free city
free coinage
free companion
free company
free energy
free enterprise
free fall
free form
free gold
free hand
free house
free list
free liver
free love
free on board
free port
free radical
free rider
free silver
free socage
free speech
free thought
free throw
free trade
free verse
free will
free zone
free-floating
free-for-all
free-handed
free-hearted
free-living
free-spoken
free-swimming
freeboard
freeboot
freebooter
freeborn
freedman
freedom
freedom fighter
freedom rider
frequent
frequentation
frequentative
frequently
fresco
fresh
fresh breeze
fresh gale
freshen
fresher
freshet
freshman
freshwater
fresnel
fret
fret saw
fretful
fretted
fretwork
friable
friar
friar's lantern
friarbird
friary
fribble
fricandeau
fricassee
frication
fricative
friction
friction clutch
friction match
friction tape
frictional
fridge
fried
friedcake
friend
friend at court
friendly
friendship
frier
frieze
frig
frigate
frigate bird
frigging
fright
frighten
frightened
frightful
frightfully
frigid
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frigorific
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fringe
fringe benefit
fringe tree
fringed orchis
fringing reef
frippery
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friseur
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frit fly
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fritillary
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frivolity
frivolous
frizette
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frizzly
frizzy
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frock
frock coat
froe
frog
frog kick
frog spit
frogfish
froggy
froghopper
frogman
frogmouth
frolic
frolicsome
frowsy
frowzy
froze
frozen
frozen pudding
ft.
fructiferous
fructification
fructificative
fructify
fructose
fructuous
frug
frugal
frugivorous
fruit
fruit cup
fruit fly
fruit knife
fruit salad
fruit sugar
fruit tree
fruitage
fruitarian
fruitcake
fruiter
fruiterer
fruitful
fruition
fruitless
fruity
frumentaceous
frumenty
frump
frumpish
frumpy
frustrate
frustrated
frustration
frustule
frustum
frutescent
fry
fryer
frying pan
ft-lb
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ft.
fubsy
fuchsia
fuchsin
fucoid
fucus
fuddle
fuddy-duddy
fudge
fuel
fuel cell
fuel injection
fuel oil
fug
fugacious
fugacity
fugal
fugato
fugitive
fugleman
fugue
fulcrum
fulfil
fulfill
fulfillment
fulgent
fulgor
fulgurant
fulgurate
fulgurating
fulguration
fulgurite
fulgurous
fuliginous
full
full blood
full dress
full house
full moon
full nelson
full professor
full sail
full score
full stop
full swing
full tilt
full time
full-blooded
full-blown
fundamental particle
fundamental unit
fundamentalism
funded debt
funds
fundus
funeral
funeral director
funeral home
funerary
funereal
funest
fungal
fungi
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fungible
fungicide
fungiform
fungistat
fungoid
fungosity
fungous
fungus
funicle
funicular
funicular railway
funiculate
funiculus
funk
funk hole
funky
funnel
funnel cloud
funnelliform
funny
funny bone
funny paper
funnyman
fur
fur farm
fur seal
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furan
furbelow
furbish
furcate
furcula
furculum
furfur
furfuraceous
furfural
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furious
furl
furlana
furlong
furlough
furmenty
furnace
furnish
furnishing
furnishings
furniture
furor
furore
furred
furrier
furriery
furring
furrow
furry
further
furtherance
furthermore
furthermost
furthest
furtive
furuncle
furunculosis
fury
furze
fusain
fuscous
fuse
fused quartz
fusee
fusel oil
fuselage
fusibility
fusible
fusible metal
fusiform
fusil
fusilier
fusillade
fusion
fusion bomb
fusionism
fuss
fussbudget
fusspot
fussy
fustanella
fustian
fustic
fustigate
fusty
fut.
futhark
futile
futilitarian
futility
futtock
futtock plate
futtock shroud
future
future life
future perfect
futures
futurism
futuristic
futurity
fuze
fuzee
fuzz
fuzzy
fwd.
fyke
fyllot
fyrd
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gab
gabardine
gabble
gabbro
gabby
gabelle
gaberdine
gaberlunzie
gabfest
gabion
galactic coordinates
galactic equator
galactic latitude
galactic longitude
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game fowl
game point
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general semantics
general sessions
general staff
general store
general strike
general theory of relativity
generalissimo
generalist
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gin rickey
gin rummy
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go-devil
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goatskin
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gold certificate
gold digger
gold dust
gold fever
gold foil
gold leaf
gold mine
gold mining
gold note
gold plate
gold point
gold reserve
gold rush
gold standard
gold-exchange standard
gold-filled
gold-of-pleasure
gold-plate
goldarn
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goldbeater's skin
goldbrick
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good fellow
good humor
good looks
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good nature
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good offices
good sort
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good use
good-bye
good-fellowship
good-for-nothing
good-humored
good-looking
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good-oh
good-sized
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goodwife
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great ape
great auk
great calorie
great circle
great council
great crested grebe
great gross
great pox
great primer
great seal
great tit
great white heron
great year
great-aunt
great-circle sailing
great-grand aunt
great-grand uncle
great-nephew
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green belt
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green heron
green light
green manure
green mold
green monkey
green onion
green pepper
green plover
green soap
green tea
green thumb
green turtle
green vitriol
green woodpecker
green-eyed
greenback
greenbelt
greenbottle fly
greenbrier
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greenfinch
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grosbeak
groschen
grosgrain
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gross national product
gross profit
gross ton
gross weight
grossularite
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grotesque
grotesquery
grotto
grouch
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ground bait
ground bass
ground beetle
ground cherry
ground cloth
ground cover
ground crew
ground floor
ground glass
ground hog
ground ice
ground ivy
ground log
ground loop
ground pine
ground plan
ground plate
ground plum
ground rent
ground rule
ground squirrel
ground state
ground stroke
ground swell
ground water
ground wave
ground zero
ground-controlled approach
groundage
grounder
groundhog
groundless
groundling
groundmass
groundnut
groundsel
groundsheet
groundsill
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groundwork
group
group insurance
group marriage
group practice
group therapy
grouper
groupie
grouping
grouse
gruit
groudy
grove
grovel
grow
grow into
grow out of
grow up
grower
growing
growing pains
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growler
grown
grown-up
grownup
growth
growth hormone
growth ring
growth stock
groyne
grozling iron
grub
grub hoe
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grubstake
grudge
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guel
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guaranteed bond
guaranteed stock
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guaranty
guard
guard cell
guard hair
guard ring
guard ship
guardant
guarded
guardhouse
guardian
guardian angel
guardianship
guardrail
guardroom
guardsman
guava
guayule
gubernatorial
guberniya
guck
guddle
gudgeon
gudgeon pin
guilder-rose
guenon
guerdon
gueraša
guerilla
guess
guess-rope
guess-warp
guesstimate
guesswork
guest
guest rope
guesthouse
guff
guffaw
guggle
guib
guidance
guide
guide dog
guide rope
guideboard
guidebook
guided missile
guided missile cruiser
guided wave
guideline
guidepost
guidon
guild
guild socialism
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guildhall
guildsman
guile
guileful
guileless
guillemot
guilloche
guilotine
guilt
guiltless
guilty
gumpe
guinea
guinea fowl
guinea grains
guinea grass
guinea hen
guinea pig
guipure
guise
guitar
guitarfish
guitarist
gula
gulch
gulden
gules
gulf
gulfweed
gull
gullet
gullible
gully
gulosity
gulp
gum
gum ammoniac
gum arabic
gum benzoin
gum dammar
gum elastic
gum elemi
gum plant
gum resin
gum up
gumbo
gumboil
gumbotil
guppy
gurdwara
gurge
gurgitation
gurgler
gurglet
gurnard
guru
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gusher
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gust
gustation
gustative
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gut
gutbucket
gutsy
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gutta-percha
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guttle
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gym shoe
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gymnasiarch
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ha'penny
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haberdashery
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hacienda
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hackberry
hackbut
hackery
hacking
hacking jacket
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hackman
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half-cocked
half-hardy
half-hour
half-length
half-life
half-light
half-mast
half-moon
half-pint
half-price
half-seas over
half-slip
half-sole
half-timbered
half-track
half-truth
half-wit
half-witted
halbach
halfeak
halfhearted
halfpenny
halftone
halfway
halfway house
halibut
halibut-liver oil
halide
halidom
halite
halitosis
hall
hallah
hallelujah
halliard
hallmark
hallo
halloo
hallow
hallowed
hallucinate
hallucination
hallucinatory
hallucinogen
hallucinosis
hallux
hallway
halm
halo
halo-
halogen
halogenate
haloid
halophyte
halothane
halt
halter
halting
halutz
halvah
halve
halves
halyard
ham
hamadryad
hamal
hamamelidaceous
hamartia
hamate
hamburger
hame
hamlet
hammer
hammer and sickle
hammer and tongs
hammer beam
hammer out
hammered
hammerhead
hammering
hammerless
hammerlock
hammertoe
hammock
hammy
hamper
hamster
hamstring
hamulus
hamza
hanaper
hance
hand
hand down
hand drill
hand glass
hand grenade
close-in
hand on
hand organ
hand over
hand truck
hand’s-breath
hand-knit
hand-me-down
hand-off
hand-to-hand
hand-to-mouth
handbag
handball
handbarrow
handbill
handbook
handbreadth
handcar
handcart
handclap
handclasp
handcraft
handcrafted
handcuff
handed
handedness
handfast
handfasting
handful
handgrip
handgun
handhold
handicap
handicapped
handicapper
handicraft
handicraftsman
handily
handiness
handiwork
handkerchief
handle
handlebar
handlebar moustache
handler
handling
handmade
hanky-panky
hansel
hansom
hanuman
hap
hapax legomenon
haphazard
haphazardly
hapless
haplite
haplo-
haplography
haploid
haploology
haplosis
haply
happen
happening
happenstance
happily
happiness
happy
happy hunting ground
happy-go-lucky
hapten
hara-kiri
harangue
harass
harassed
harbinger
harbor
harbor seal
harborage
harbour
harbourage
hard
hard and fast
hard candy
hard cash
hard cider
hard coal
hard copy
hard core
hard court
hard goods
hard hat
hard labor
hard landing
hard lines
hard palate
hard paste
hard rock
hard rubber
hard sauce
hard sell
hard wheat
hard-and-fast
hard-bitten
hard-boiled
hard-core
hard-favored
hard-featured
hard-nosed
hard-pressed
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-spun
hardback
hardball
hardboard
harden
hardened
hardener
hardening
hardening of the arteries
hardhack
hardheaded
hardhearted
hardihood
hardily
hardiness
hardly
hardness
hardpan
hards
hardship
hardtack
hardtop
hardware
hardwood
hardworking
hardy
hare
hare and hounds
harebell
harebrained
harelip
harem
haricot
hark
hark back
harken
harl
harlequin
harlequin bug
harlequin duck
harlequin opal
harlequinade
harlot
harlotry
harm
harmattan
harmful
harmless
harmonic
harmonic analysis
harmonic mean
harmonic minor scale
harmonic motion
harmonic progression
harmonic series
harmonic tone
harmonica
harmonicon
harmonics
harmonious
harmonist
harmonium
harmonize
harmony
harmotome
harness
harness cask
harness hitch
harness race
harnessed antelope
harp
harper
harping
harpist
harpoon
harpoon gun
havilard
havoc
haw
hawfinch
hawk
hawk moth
hawk owl
hawk's-beard
hawk's-eye
hawk-eyed
hawkbill
hawker
hawking
hawksbill turtle
hawkshaw
hawkweed
hawse
hawse bag
hawsehole
hawsepiece
hawsepipe
hawser
hawser bend
hawser-laid
hawthorn
hay
hay fever
haycock
hayfield
hayfork
hayloft
haymaker
haymow
hayrack
hayrick
hayseed
haystack
hayward
haywire
hazan
hazard
hazardous
haze
hazel
hazelnut
hazing
hazy
heart failure
heart murmur
heart-lung machine
heart-stricken
heart-to-heart
heart-warming
heart-whole
heartache
heartbeat
heartbreak
heartbreaker
heartbreaking
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heartburn
heartburning
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heartfelt
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hearthside
hearthstone
heartily
heartland
heartless
heartrending
hearts
heartsease
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heartsome
heartstrings
heartthrob
heartwood
heartworm
hearty
heat
heat barrier
heat capacity
heat content
heat engine
heat exchanger
heat exhaustion
heat lightning
heat prostration
heat pump
heat rash
heat shield
heat wave
heated
heater
heath
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heath grass
heath hen
heathberry
heathen
heathendom
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heathenism
heathenize
heathenry
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heating element
heating pad
heatstroke
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heaves
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heavily
heaviness
heaving-line bend
heavy
heavy artillery
heavy bomber
heavy cream
heavy cruiser
heavy earth
heavy hydrogen
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heavy water
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heavyweight
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helix
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hell-raiser
hellbender
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hellebore
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hellfire
hellgrammite
hellhole
hellhound
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helluva
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helper
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helping hand
helpless
helpmate
helpmeet
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hemangioma
hematite
hemato-
hematology
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hemialgia
hemianopsia
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hemipode
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hemocyte
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hemolysis
hemophilia
hemorrhage
hemorrhoid
hemorrhoidectomy
hemostat
hemotherapy
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hemp nettle
hemp tree
hemstitch
hen
hen party
hen-and-chickens
henbane
henbit
hence
henceforth
henceforward
henchman
hendeca-
hendecagon
hendecahedron
hendecasyllable
hendiadys
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henhouse
henna
hennery
henotheism
henpeck
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hetero-
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higgledy-piggledy
higgler
high
high and mighty
high blood pressure
high camp
high comedy
high command
high commissioner
high day
high explosive
high fashion
high fidelity
high frequency
high hat
high jinks
high jump
high jumper
high noon
high place
high point
high priest
high relief
high school
high schooler
high sea
high seas
high sign
high society
high spirits
high spot
high table
high tea
high tide
high time
high treason
high water
high wire
high-angle fire
high-class
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high-flown
high-grade
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high-hat
high-key
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high-powered
high-pressure
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high-speed steel
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high-stepper
high-strung
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high-test
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high-water mark
high-wrought
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highborn
highboy
highbred
highbrow
highchair
higher arithmetic
higher criticism
higher education
higher mathematics
higher-up
highfalutin
highflier
highjack
highland
highlight
highline
highly
highness
highroad
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hightail
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highway robbery
highwayman
hijack
hijacker
hike
hilarious
hilarity
hill
hill myna
hill station
hillbilly
hillbilly music
hillock
hillside
hilltop
hilly
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himself
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hindbrain
hinder
hindernost
hindgut
hindmost
hindquarter
hindrance
hindsight
hindward
hinge
hinging post
hinny
hint
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hip bath
hip joint
hip roof
hip-huggers
hipbone
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hippie
hippo
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hippocras
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hippopotamus
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hipster
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histoplasmosis
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historical linguistics
historical materialism
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historical novel
historical present
historical school
historicism
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history
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histrionism
hit
hit off
hit-and-miss
hit-and-run
hit-or-miss
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hitchhike
hitching post
hither
hithermost
hitherto
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hockey
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hocus-pocus
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hodden
hodgepodge
hodman
hodometer
hoe
hoecake
hoedown
hog
hog cholera
hog peanut
hogan
hogback
hogfish
hoggish
hognose snake
hognut
hogshead
horgotie
hogwash
hogweed
hoi polloi
hoick
hoicks
hoiden
hoist
hoity-toity
hokey-pokey
hokku
hokum
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hold back
hold down
hold forth
hold in
hold off
hold on
hold out
hold over
hold together
hold with
holdall
holdback
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holder
holdfast
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holding company
holding pattern
holdover
holdup
hole
hole in one
hole up
hole-and-corner
holeproof
holiday
holier-than-thou
holily
holiness
holism
hollandaise sauce
holler
hollo
hollow
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holly
holly fern
hollyhock
holm
holm oak
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holmium
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holoblastic
holocaust
holocrine
holoenzyme
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holography
holohedral
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holophytic
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holotype
holozoic
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holpen
hols
holster
holt
holus-bolus
holy
holy day
holy of holies
holy orders
holy place
holy rood
holy synod
holy war
holy water
holystone
holytide
homage
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hombre
homburg
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home economics
home guard
home plate
home range
home rule
home run
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homespun
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homeward
homework
homey
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homicide
homiletic
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homing
homing pigeon
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hominy grits
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homogeneity
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homogony
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homograph
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homologate
homologize
homologous
homologous chromosomes
homolographic
homologue
homology
homolosine projection
homomorphism
homonym
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homophone
homophonic
homophonous
homophony
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homosexuality
homosporous
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homothallic
homothermal
homozygote
homozygous
homunculus
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honest
honestly
honesty
honewort
honey
honey buzzard
honey guide
honey locust
honey mesquite
honey plant
honey-sweet
honeybee
honeybunch
honeycomb
honeydew
honeydew melon
honeyed
honeymoon
honeysucker
honeysuckle
honeysuckle ornament
hong
honied
honk
honky
honky-tonk
honor
honor point
honor roll
honorable
honorarium
honorary
honoric
honoris causa
honour
honourable
hoo
hooch
hood
hooded
hooded crow
hooded seal
hoodlum
hoodman-blind
hoodoo
hoodwink
hooey
hoof
hoof-and-mouth disease
hoofbeat
hoofbound
hoofed
hoofer
hook
hook and eye
hook-nosed
hookah
hooked
hooked rug
hooker
hooknose
hookup
hookworm
hooky
hooligan
hoop
hoop pine
hoop skirt
hoop snake
hooper
hoopla
hoopoe
hooray
hoosegow
hoot
hoot owl
hootchy-kootchy
hootenanny
hooves
hop
hop clover
hop-o'-my-thumb
hope
hope chest
hopeful
hopefully
hopeless
hophead
hoptite
hopper
hopping
hopple
hopscotch
hoptoad
hor.
hora
horal
horary
horde
hordein
horehound
horizon
horizontal
horizontal bar
horizontal stabilizer
horizontal union
horne
hormonal
hormone
horn
horn in
horn of plenty
horn silver
horn-mad
hornbeam
hornbill
hornblende
hornbook
hormed
horned lizard
horned owl
horned poppy
horned pout
horned screamer
horned toad
horned viper
hornet
hornet's nest
hornpipe
hornstone
hornswoggle
horntail
hornwort
horny
hot
hot air
hot buttered rum
hot cake
hot cockles
hot cross bun
hot dog
hot lick
hot line
hot metal
hot money
hot pants
hot pepper
hot plate
hot potato
hot rod
hot seat
hot spot
hot spring
hot stuff
hot war
hot water
hot-air balloon
hot-blooded
hot-cathode tube
hot-press
hot-tempered
hot-water bag
hot-water bottle
hotbed
hotbox
hotchpot
hotchpotch
hotel
hotfoot
hothead
hotheaded
hothouse
hotshot
hotspur
hough
hound
hound’s-tongue
hounding
houppelande
hour
hour angle
hour circle
huddle
hue
hue and cry
hued
huff
huffish
huffy
hug
hug-me-tight
huge
hugely
hugger-mugger
huh
hula
hula skirt
hula-hula
hulk
hulking
hulky
hull
hullabaloo
hullo
hum
human
human being
human interest
human nature
human rights
humane
humane society
humanism
humanist
humanitarian
humanitarianism
humanity
humanize
humankind
humanly
humanoid
humble
humble pie
humblebee
humbug
humbuggery
hundinger
humdrum
humectant
humeral
hunt down
hunt up
hunter
hunter's moon
hunting
hunting ground
hunting horn
hunting knife
huntress
huntsman
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job lot
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jocularity
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joe-pye weed
joey
jog
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john
Johnny
johnnycake
joie de vivre
join
joiner
joinery
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joint account
joint life insurance
joint resolution
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jolly jumper
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jonquil
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journeywork
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joy stick
joyance
joyful
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jump head
jump on
jump seat
jump shot
jump suit
jump turn
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jumping jack
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junction
junction transistor
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jungle fowl
jungle rot
jungly
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junior counsel
junior high school
junior miss
junior school
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juniper
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jurisprudent
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juror
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jury box
jury list
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jury-rigged
juryman
jurywoman
jus
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jus civile
jus divinum
jus gentium
jus naturale
jus primae noctis
jus sanguinis
jus soli
jussive
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just intonation
just noticeable difference
juste-milieu
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justiciary
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kiss of peace
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lampoon
lamp post
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lampyrid
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land bank
land crab
land grant
land measure
land mine
land of Nod
land of milk and honey
land office
land rail
land reform
land tax
land-grabber
land-office business
land-poor
landau
ladaulet
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landgraviate
landgravine
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landing field
landing gear
landing net
landing stage
landing strip
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landsknecht
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landsman
landwaiter
landward
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lapsus linguae
lapwing
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larceny
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lardy
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large intestine
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large-minded
large-scale
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largemouth bass
largess
larghetto
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laser
lash
lashing
lass
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last post
last quarter
last rites
last straw
last word
last-ditch
last-minute
lasting
lastly
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latchkey
latchstring
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latecomer
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latency period
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laughing hyena
laughing jackass
laughingstock
laughter
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launch pad
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launching pad
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laundrywoman
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lauryl alcohol
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laviere
lavation
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lavender
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law agent
law court
law merchant
law of averages
law of nations
law of parsimony
law of thermodynamics
law-abiding
lawbreaker
lawful
lawgiver
lawless
lawmaker
lawman
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lawn mower
lawn party
lawn sleeves
lawn tennis
lawrencium
lawsuit
lawyer
lax
laxation
laxative
laxity
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lay analyst
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lay away
lay brother
lay down
lay figure
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lay into
lay off
lay on
lay out
lay over
lay reader
lay sister
lay to
lay up
lay-by
layer
layer cake
layette
laying on of hands
layman
layoff
layout
laywoman
lazar
lazaretto
laze
lazuli
lazulite
lazurite
lazy
lazy Susan
lazy daisy stitch
lazy tongs
lazybones
lb.
lb. ap.
lb. av.
lb. t.
lea
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leach
lead
lead acetate
lead arsenate
lead colic
lead glass
lead line
lead monoxide
lead off
lead on
lead pencil
lead poisoning
lead screw
lead tetraethyl
lead time
lead-in
lead-pipe cinch
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leadership
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leading article
leading edge
leading lady
leading light
leading man
leading question
leading strings
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leadwort
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leaf fat
leaf insect
leaf miner
leaf mold
leaf monkey
leaf spot
leaf spring
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leafstalk
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leant
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learnt
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leaseholder
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leastways
leastwise
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leave behind
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leave off
leave out
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lecture
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lee shore
lee tide
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left wing
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left-handed
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left-luggage office
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leftward
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leg bye
leg-of-mutton
leg-of-mutton sail
leg-pull
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legacy
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legal aid
legal cap
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legal holiday
legal medicine
legal separation
legal tender
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legality
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legislator
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lentigo
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lesbianism
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lesser panda
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let into
let off
let on
let out
let up
let's
letch
letdown
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lethargic
lethargy
letter
letter box
letter carrier
letter drop
letter of advice
letter of credit
letter of introduction
letter of marque
letter-perfect
lettered
letterhead
lettering
letterpress
letters
letters patent
letters testamentary
lettuce
letup
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lie detector
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liegeman
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lieutenancy
lieutenant
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lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
life
life belt
life buoy
life cycle
life expectancy
life history
life instinct
life jacket
life mask
life net
life preserver
life raft
life science
life span
life table
life vest
life-and-death
life-giving
life-or-death
life-size
lifeblood
lifeboat
lifeguard
lifeless
lifelike
lifeline
lifelong
lily-white
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limacine
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limbate
limber
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limbus
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limekiln
limelight
linen
limerick
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limestone
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limey
limicoline
limicolous
liminal
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limit point
limit switch
limitary
limitation
limitative
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limited edition
limited liability
limited monarchy
limited payment insurance
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limitless
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limousine
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limpid
limkin
limulus
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linalool
linchpin
linctus
lindane
linden
lindy
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line drawing
line drive
line engraving
line gauge
line of battle
line of credit
line of fire
line of force
line of position
line of scrimmage
line of sight
line of vision
line squall
line storm
line-of-battle ship
line-up
lineage
lineal
lineament
linear
linear accelerator
linear algebra
linear measure
linear perspective
linear programming
linearity
lineate
lineation
linebacker
linebreeding
lineman
linen
linen closet
linen paper
lint
lintel
linter
lintwhite
lion
lion's share
lioness
lionfish
lionhearted
lionize
lip
lip reading
lip service
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lip-read
lipase
lipid
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lipography
lipoid
lipolysis
lipoma
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lipoprotein
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liquefied petroleum gas
liquefy
liquesce
liquescent
liqueur
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liquid air
liquid crystal
liquid fire
liquid glass
liquid measure
liquid oxygen
liquid petrolatum
liquidambar
liquidate
liquidation
liquidator
liquidity
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lithophyte
lithopone
lithosphere
lithotomy
lithotritry
litigable
litigant
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litigation
litigious
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litmus paper
litoses
litre
litter
litterbug
little
little finger
little hours
little man
little office
little owl
little people
little slam
little theater
littlest
littoral
liturgical
liturgic
liturgist
loc. cit.
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local color
local government
local option
local oscillator
local time
locale
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locality
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locally
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lock out
lock step
lock stitch
lock up
lockage
locker
locker plant
locket
lockjaw
lockout
locksmith
lockup
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loco disease
locoism
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locomotion
locomotive
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loculus
locum tenens
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locus sigilli
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logography
logogriph
logomachy
logorrhea
logos
logotype
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logy
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loincloth
loiter
loll
lollapalooza
lollipop
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lollygag
loment
lone
lone hand
lone wolf
lonely
loner
lonesome
long
long account
long arm
long cross
long distance
long dozen
long face
long haul
long horse
long house
long hundredweight
long johns
long jump
long measure
long moss
long pig
long primer
long shot
long suit
longways
longwise
loo
looby
look
look after
look back
look forward to
look on
look over
look through
look up
look-in
look-see
look-through
looker
looker-on
looking glass
lookout
loom
looming
loon
looney
loony
loony bin
loop
loop knot
looper
loophole
loopy
loose
loose end
loose smut
loose-jointed
loose-leaf
loose-limbed
loose-tongued
loosen
loosestrife
loosing
loot
lop
lop-eared
lope
lophobranch
lophophore
loppy
lopsided
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loquacity
loquat
loquitur
loran
lord
lord-in-waiting
lording
lordling
lordly
lordosis
lords-and-ladies
lordship
lore
lorgnette
lorgnon
lorica
loricate
lorikeet
lorimer
loris
lorn
lorry
lorry
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lose out
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loss
loss leader
loss ratio
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lost cause
lost tribes
lost-wax process
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lotion
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lottery
lotto
lotus
lotus-eater
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loud-hailer
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loudmouthed
loudspeaker
lough
louis
louis d'or
lounge
lounge lizard
lounge suit
lounging
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loup-garou
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lour
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lousy
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louvar
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louvre
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loavage
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love child
love feast
love game
love knot
love letter
love match
love nest
love potion
love seat
love set
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love-in-idleness
love-lies-bleeding
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lovegrass
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lovelock
lovelorn
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lovelmaking
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loving cup
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low relief
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low-spirited
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lower class
lower criticism
lower deck
lower house
lower world
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lowerclassman
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lowermost
lowest common denominator
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luggage
lugger
lug sail
lugubrious
lugworm
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lullaby
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lumberjack
lumberman
lumberyard
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luminosity
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luminous flux
luminous intensity
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luminox
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lunar eclipse
lunar module
lunar month
lunar year
lunarian
lunate
lunatic
lunatic asylum
lunatic fringe
lunation
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luncheon
luncheon meat
luncheonette
lunchroom
lune
lunette
lung
lungan
lunge
lungfish
lungi
lungworm
lungwort
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lustrous
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luxurious
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lycanthropy
lyceum
lych gate
lychnis
lycopodium
lyddite
lye
lying
lying-in
lyme grass
lymph
macrobiotics
macroclimate
macrocosm
macrocytic anemia
macrogamete
macrography
macromolecule
macron
macronucleus
macrophage
macrophysics
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macropore
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macula
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maculation
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made-up
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madhouse
madly
madman
madness
madras
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maduro
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maelstrom
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magic lantern
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magnetic circuit
magnetic compass
magnetic course
magnetic declination
magnetic dip
magnetic equator
magnetic field
magnetic flux
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magnetic force
magnetic induction
magnetic meridian
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magnetic moment
magnetic needle
magnetic north
magnetic pickup
magnetic pole
magnetic potential
magnetic quantum number
magnetic storm
magnetic tape
magnetic variation
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mahogany
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maiden voyage
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maidenhead
maidenhood
maidenly
maidservant
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mail order
mailable
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mailbox
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majolica
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major orders
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major triad
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majorette
majority
majuscule
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make off
make out
make over
make-believe
make-peace
makefast
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makeshift
makeup
makeweight
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mal du pays
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mala fides
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maltreat
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malvasia
malversation
malvoisie
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mamey
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mammalogy
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mammilla
mammillary
mammillate
mammon
mammoth
mammy
man
man Friday
man about town
man in the street
man of God
man of straw
man-at-arms
man-eater
man-eating
man-hour
man-made
man-of-war
man-sized
man-to-man
mana
manacle
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manageable
managed currency
management
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managerial
managing
managing editor
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manana
manas
manatee
manchineel
manciple
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mandragora
mandrake
mandrel
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manducate
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marchese
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mare
mare liberum
mare nostrum
mare's-nest
mare's-tail
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marinara
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marine insurance
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mariner's compass
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maritime
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market gardening
market order
market price
market research
market town
market value
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marketplace
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markka
marksman
markswoman
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mascon
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masculine rhyme
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medical jurisprudence
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medium bomber
medium frequency
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medium shot
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memory trace
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merganser
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meritorious
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mermaid
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mess hall
mess jacket
mess kit
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meteoroid
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micrococcus
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microcurie
microcyte
microdont
microdot
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microelement
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microfiche
microfilm
microgamete
microgram
micrography
microgroove
microhenry
microlith
micrometeorite
micrometeorology
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micrometer caliper
micrometer screw
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micromillimeter
microminiaturization
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micronucleus
micronutrient
microorganism
micropaleontology
microparasite
micropathology
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microphotograph
microphysics
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microprint
micropyle
microreader
microscope
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microscopy
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microseism
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microspore
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microsurgery
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middle game
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middle passage
middle school
middle term
middle watch
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middle-class
middle-of-the-road
middle-of-the-roader
middlebreaker
middlebrow
middlebuster
middleman
middlemost
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migration
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military government
military law
military march
military pace
military police
military school
military science
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militia
militiaman
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milk of magnesia
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milk sickness
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milk thistle
milk tooth
milk train
milk vetch
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milk-white
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minor triad
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minute gun
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misplay
mispleading
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misquote
misread
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misreport
misrepresent
misrule
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misend
misshape
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mock sun
mock turtle soup
mock-heroic
mock-up
mockery
mockingbird
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moderate gale
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modulus of rigidity
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modus vivendi
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molecular biology
molecular distillation
molecular film
molecular formula
molecular volume
molecular weight
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moorings
moorland
moorwort
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moot
moot court
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morbilli
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mordant
mordent
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motherhood
mothering
motherland
motherless
motherly
motherwort
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motion sickness
motion study
motionless
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motor court
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motor vehicle
motor vessel
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motorboat
motorboating
motorbus
motorcade
motorcar
motorcycle
motoring
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motorman
motorway
motte
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mottled
motto
motu proprio
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mouflon
moujik
mould
moulder
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mountain cat
mountain chain
mountain goat
mountain laurel
mountain lion
mountain range
mountain sheep
mountain sickness
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mourning dove
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mouse deer
mouse-ear
mousebird
mouser
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mousetrap
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moussaka
mousse
mousseline
mousseline de laine
mousseline de soie
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mule skinner
muleteer
muley
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mulish
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mullah
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muller
mullet
mulley
mulligan
mulligatawny
mulligrubs
mullion
mullite
mullock
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multiphase
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poison sumac
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powder flask
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powder keg
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powder monkey
powder puff
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powdered milk
powdery
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power brake
power dive
power drill
power line
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power pack
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power saw
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power supply
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private first class
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private practice
private school
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privily
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privy council
privy purse
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prosecution
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public charge
public debt
public defender
public domain
public enemy
public house
public law
public opinion
public prosecutor
public relations
public school
public servant
public service
public utility
public works
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puparium
pupil
pupillary
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secret society
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secretary
secretary bird
secretary of state
secretary-general
secrete
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security risk
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sedan cruiser
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sedative
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edge
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sedimentology
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see into
see out
see through
see-through
seed
seed capsule
seed coat
seed corn
seed leaf
seed plant
seed vessel
seedbed
seedcase
seeder
seedling
seedtime
seedy
seeing
seek
seek out
seeker
seel
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seemly
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self
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self-abasement
self-abnegation
self-absorbed
self-absorption
self-abuse
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self-addressed
self-aggrandizement
self-analysis
self-annihilation
self-appointed
self-assertion
self-assurance
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self-delusion
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self-determination
self-devotion
self-discipline
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self-driven
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self-effacing
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self-esteem
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self-expression
self-fertilization
self-forgetful
self-fulfillment
self-governed
self-government
self-gratification
self-help
self-hypnosis
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self-immolation
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self-improvement
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self-induction
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self-insurance
self-interest
self-justifying
self-knowledge
self-liquidating
self-loading
self-love
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self-mastery
self-mortification
self-moving
self-operating
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self-pity
self-pollination
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self-possession
self-preservation
self-pronouncing
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self-propulsion
self-realization
self-regard
self-regulated
self-regulating
self-reliance
self-reliant
self-renunciation
self-reproach
self-respect
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semiautomatic
semibreve
semicentennial
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semirigid
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semitone
semitrailer
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semiweekly
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semper fidelis
semper paratus
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senior citizen
senior high school
seniority
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sense datum
sense organ
sense perception
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sensible horizon
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sensitive plant
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sergeant first class
sergeant major
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serial number
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serum albumin
serum globulin
serum hepatitis
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servant
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server
service
service book
service ceiling
service medal
service station
service stripe
serviceable
serviceberry
serviceman
servient tenement
serviette
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servitor
servitude
servo
servo system
servomechanical
servomechanism
servomotor
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sesquioxide
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sesquiplane
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set against
set aside
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set down
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set off
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set out
set piece
set point
set square
set theory
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set up
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setscrew
sett
settee
setter
setting
setting-up exercises
settle
settle down
settle for
settle in
settle with
settlement
settler
settling
settlings
setula
setup
seven
seven deadly sins
seven seas
seven-up
seven-year itch
sevenfold
seventeen
seventeen-year locust
seventeenth
seventh
seventh chord
seventh heaven
seventieth
seventy
sever
severable
several
severally
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severance
severance pay
severe
severity
sew
sew up
sewage
sewan
sewellel
sewer
sewerage
sewing
sewing machine
sewn
sex
sex act
sex appeal
sex chromosome
sex hormone
sex-
sex-limited
sexagenarian
sexagenary
sexagesimal
sexcentenary
sexdecillion
sexed
sexennial
sexism
sexist
sexivalent
sexless
sexology
sexpartite
sexpot
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shake off
shake up
shake-up
shakedown
shaker
shaking
shaking palsy
shako
shaky
shale
shale oil
shall
shalloon
shallop
shallot
shallow
shalom aleichem
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shamble
shambles
shame
shamefaced
shameful
shameless
shammer
shammy
shampoo
shamrock
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shanghai
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shanny
shantung
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shape
shape up
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shapely
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sharecrop
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shebang
shebeen
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shed roof
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sheep ked
sheep sorrel
sheep tick
sheep's eyes
sheep's fescue
sheep-dip
sheepcote
sheepdog
sheepfold
sheepherder
sheepish
sheepshank
sheep's head
sheep's hearing
sheepskin
sheepwalk
sheer
sheer strake
sheerlegs
sheers
sheet
sheet anchor
sheet bend
sheet glass
sheet lightning
sheet metal
sheet music
sheet-fed
sheeting
sheik
sheikdom
sheikh
shekel
shelduck
shelf
shelf ice
shelf life
shell
shell bean
shell game
shell jacket
shell out
shell shock
shellac
shellacking
shellback
shellbark
shelled
shellfire
shellfish
shellproof
shelter
shelter deck
shelter tent
shelty
shelf
shelves
shelving
shend
shepherd
shepherd dog
shepherd's pie
shepherd's-purse
sherbet
sherd
sherif
sheriff
sherry
sheugh
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shibboleth
shied
shield
shield bug
shield fern
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shiest
shift
shift key
shiftless
shifty
shigella
shikari
shiksa
shill
shillelagh
shilling
shilling mark
shilly-shally
shimmer
shimmery
shimmy
shin
shinbone
shindig
shine
shiner
shingle
shingles
shingly
shinleaf
shinny
shiny
ship
ship biscuit
ship chandler
ship money
ship of the line
ship of war
ship's boat
ship's boy
ship's husband
ship's papers
ship-rigged
shipboard
shipentine
shipload
shipman
shipmaster
shipmate
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shipowner
shippen
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shipping ton
shipshape
shipway
shipworm
shipwreck
shipwright
shipyard
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shire horse
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shirtmaker
shirtwaist
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shish kebab
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shithead
shittim wood
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shock
shock absorber
shock therapy
shock troops
shock wave
shocker
shockheaded
shocking
shockproof
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shoddy
shoe
shoe leather
shoebill
shoebalck
shoelace
shoemaker
shoer
shoeshine
shoestring
shofar
shogun
shogunate
shone
shoo
shoo-in
shook
shool
shoon
shoot
shoot down
shoot out
shoot up
shooter
shooting box
shooting brake
shooting gallery
shooting iron
shooting script
shooting star
shooting stick
shooting war
shop
shop assistant
shop steward
shophar
shopkeeper
shoplifter
shopper
shopping
shopping center
shopwindow
shopworn
shoran
shore
shore bird
shore leave
shore patrol
shoreless
shoreline
shoredward
shoring
shorn
short
short account
short circuit
short covering
short division
short hundredweight
short interest
short list
short shrift
short story
short subject
short ton
short-change
shovel
shovel hat
shovelboard
shoveler
shovelhead
shvelnose
show
show bill
show business
show girl
show of hands
show off
show up
show-off
show-through
showboat
showbread
showcase
showdown
shower
showery
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showiness
showing
showman
showmanship
shown
showpiece
showplace
showroom
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shrapnel
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shrew mole
shrewd
shrewish
shrewmouse
shrieck
shrieval
shrievalty
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shrimp
shrine
shrink
shrinkage
shrive
shrivel
shroff
shroud
shroud knot
shroud-laid
shrove
shrub
shrubbery
shrubby
shrug
shrug off
shrunken
shtg.
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shudder
shuddering
shuffle
shuffleboard
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shunt
shunt-wound
shush
shut
shut up
shut-in
shutdown
shutout
shutter
shuttering
shuttle
shuttlecock
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sibilate
sibling
sibship
sibyl
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sic passim
siccative
sick
sick headache
sick leave
sick list
sicken
sickener
sickening
sickle
sickle feather
sicklebill
sickly
sickness
sickroom
siddur
side
side arms
side chain
side dish
side drum
side effect
side horse
side meat
side step
side street
side table
side whiskers
side-dress
sideband
sideboard
sideburns
sidecar
sidekick
sidelight
sideline
sideling
sidelong
sideman
sidereal
sidereal day
sidereal hour
sidereal month
sidereal time
sidereal year
siderite
sidero-
siderolite
siderosis
siderostat
sidesaddle
sideshow
sideslip
sidesman
sidestep
sidestroke
sideswipe
sidetrack
sidewalk
sideward
sideway
sideways
sidewheel
sidewinder
siding
sidle
siege
siemens
sienna
sierra
siesta
sieve
sieve tube
sift
siftings
sig.
sigh
sight
sight bill
sight draft
sight-read
sight-seeing
sighted
sightless
sightly
sigil
siglos
sigma
sigmatism
sigmoid
sigmoid flexure
sign
silica glass
silicate
siliceous
silici-
silicic
silicic acid
silicify
silicious
silicium
silicle
silicon
silicon carbide
silicone
silicosis
siliculose
siliqua
slique
silk
silk hat
silk oak
silk-screen printing
silk-stocking
silkaline
silken
silkweed
silkworm
silky
sill
sillabub
sillimanite
silly
silly season
silo
siloxane
silt
siltstone
silurid
silva
silvan
silver
silver age
silver bell
silver birch
silver bromide
silver certificate
silver chloride
silver fizz
silver foil
silver fox
silver frost
silver iodide
silver leaf
silver lining
silver maple
silver nitrate
silver plate
silver screen
silver standard
silver thaw
silver-eye
silver-plate
silver-tongued
silverfish
silvern
silverpoint
silverside
silversmith
silverware
silverweed
silvery
silviculture
sima
simar
simarouba
simaroubaceous
simba
simian
similar
similarity
simile
similitude
simitar
simmer
simnel cake
simon-pure
simoniac
simonize
simony
simoom
simp
simpatico
simper
simple
simple chancre
simple harmonic motion
simple interest
simple machine
simple microscope
simple sentence
simple time
simple-hearted
simple-minded
singleton
simplex
simplicidentate
simplicity
simplify
simplism
simplistic
simply
simulacrum
simulant
simulate
simulated
simulation
simulator
simulcast
simultaneous
simultaneous equations
sin
sinapism
since
sincere
sincerity
sinciput
sine
sine curve
sine die
sine prole
sine qua non
sine wave
sinecure
sinew
sinewy
sinfonia
sinfonietta
sinful
sing
sing out
sing.
singe
singer
singing bird
single
single bond
single combat
single entry
single file
single quotes
single rhyme
single tax
single-action
single-breasted
single-cross
single-foot
single-handed
single-handedly
single-hearted
single-lens reflex
single-minded
single-phase
singleness
singles
singlestick
singlet
singleton
singletree
singly
singsong
singular
singularity
singularize
singultus
sinh
sinister
sinistrad
sinistral
sinistrality
sinistrocular
sinistrodextral
sinistrorse
sinistrous
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sink in
sinkage
sinker
sinkhole
sinking
sinking fund
sinless
sinner
sinter
sinuate
sinuation
sinuosity
sinuous
sinus
sinusitis
sinusoid
sinusoidal
sinusoidal projection
sip
siphon
siphon bottle
siphonophore
siphonostele
sipper
sippet
sir
sir-reverence
sirdar
sire
siren
sirenic
siriasis
sirloin
sirocco
sirrah
sirree
sirup
sis
sisal
siskin
sissified
sissy
sister
sister-in-law
sisterhood
sisterly
sit
sit back
sit down
sit on
sit up
sit-down
sit-down strike
sit-in
sitar
site
sitology
skatole
skean
skean dhu
skedaddle
skeet
skeg
skein
skeleton
skeleton key
skellum
skelp
skep
skepful
skeptic
skeptical
skepticism
skerrick
skerry
sketch
sketchbook
sketchy
skew
skewback
skewbald
skewer
skewness
ski
ski jump
ski lift
ski pants
ski tow
ski troops
skiagraph
skiascope
skid
skid fin
skid row
skidproof
skidway
skied
skiff
skiffle
skiing
skijoring
skilful
skill
skill-less
skilled
skillet
skillful
skilling
skim
skim milk
skimmer
skimmia
skimp
skimpy
skin
skin diving
skin effect
skin flick
skin friction
skin graft
skin-deep
skin-dive
skinflint
skinhead
skink
skinned
skinny
skinny-dip
skintight
skip
skip distance
skip tracer
skip-jack
skiplane
skipper
skippet
skirl
skirling
skirmish
skirr
skirret
skirt
skirting
skit
skite
skitter
skittish
skittle
skive
skiver
skivvy
skulduggery
skulk
skull
skull and crossbones
skullcap
skunk
skunk cabbage
sky
sky blue
sky pilot
sky wave
sky-high
skycap
skydive
skjack
skylark
skylight
skyline
skyrocket
skysail
skyscape
skyscraper
skysweeper
skyward
skyway
skywriting
slab
slabber
slack
slack suit
slack water
slack-jawed
slacken
slacker
slacks
slag
slain
slake
slaked lime
slalom
slam
slam-bang
slander
slang
slangy
slant
slant rhyme
slantwise
slap
sleeping draught
sleeping partner
sleeping pill
sleeping sickness
sleepless
sleepwalk
sleepy
sleepyhead
sleet
sleety
sleeve
sleigh
sleight
sleight of hand
slender
slenderize
sleuth
sleuthhound
slew
slice
slice bar
slicer
slick
slickenside
slicker
slide
slide fastener
slide rule
slide trombone
slide valve
slide-action
slider
sliding
sliding scale
slier
sliest
short
sighting
sightly
slily
slim
slime
slime mold
slimsy
slimy
sling
sling psychrometer
slinger ring
slype
smack
smack-dab
smacker
smacking
small
small arms
small beer
small calorie
small capital
small change
small circle
small fry
small hours
small intestine
small pica
small potatoes
small slam
small stores
small stuff
small talk
small-minded
small-scale
small-time
smallage
smallclothes
smallish
smallmouth bass
smallpox
smallsword
smalt
smaltite
smalto
smaragd
smaragdine
smaragdite
smarm
smarmy
smart
smart aleck
smart money
smart set
smarten
smash
smash-and-grab
smash-up
smashed
smasher
smoking car
smoking jacket
smoking room
smoko
smoky
smoky quartz
smolder
smolt
smoodege
smooth
smooth breathing
smooth muscle
smooth over
smooth plane
smooth-shaven
smooth-spoken
smooth-tongued
smoothbore
smoothen
smoothie
smoothing iron
smorgasbord
smote
smother
smothered mate
smoulder
smriti
smudge
smug
smuggle
smut
smutch
smutchy
smutty
snack
snack bar
snaffle
snafu
snag
snaggletooth
snaggy
snail
snail's pace
snail-paced
snailfish
snake
snake charmer
snake dance
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snip
snipe
sniper
sniperscope
snippet
snippy
snips
snitch
snivel
snob
snobery
snobbery
snobish
snood
snook
snooker
snoop
snooperscope
snoopy
snooty
snooze
snore
snorkel
snort
snorter
snot
snotty
snout
snout beetle
snow
snow blindness
snow bunting
snow fence
snow goose
snow ice
snow job
snow leopard
snow line
snow plant
snow-blind
snow-clad
snow-in-summer
snow-on-the-mountain
snow-white
snowball
snowberry
snowbird
snowblink
snowbound
sob sister
sob story
sober
sober-minded
sobersided
sobriety
sobriquet
socage
soccer
sociability
sociable
social
social anthropology
social class
social climber
social contract
social democracy
social disease
social insurance
social organization
social psychology
social science
social security
social service
social welfare
social work
social worker
social-minded
socialism
socialist
socialistic
socialite
sociality
socialization
socialize
socialized medicine
societal
society
society verse
socio-
socioeconomic
sociol.
sociolinguistics
sociology
sociometry
sociopath
sock
socket
socket wrench
socle
socman
sod
soda
soda ash
soda biscuit
soda cracker
soda fountain
soda pop
soda water
sodalite
sodality
sodamide
sodden
sodium
sodium bicarbonate
sodium bromide
sodium carbonate
sodium chloride
sodium cyanide
sodium cyclamate
sodium dichromate
sodium fluoride
sodium fluoracetate
sodium glutamate
sodium hydroxide
sodium lamp
sodium nitrate
sodium perborate
sodium peroxide
sodium phosphate
sodium propionate
sodium silicate
sodium sulfate
sodium thiosulfate
sodium-vapor lamp
sodomite
sodomy
soever
sofa
sofa bed
sofar
soffit
soft
soft chancre
soft clam
soft coal
solan
solanaceous
solander
solano
solanum
solar
solar apex
solar battery
solar constant
solar day
solar eclipse
solar flare
solar month
solar plexus
solar system
solar wind
solar year
solarism
solarium
solarize
solatium
sold
solder
soldering iron
soldier
soldier of fortune
soldierly
soldiery
soldo
sole
solecism
solely
solemn
solemnity
solemnize
solenoid
solfatara
solfeggio
solfgerino
solicit
solicitor
solicitor general
solicitous
solicitude
solid
solid angle
solid fuel
solid geometry
solid-state
solid-state physics
solidago
solidarity
solidary
solidify
solidus
solidfian
solidification
solidoquize
solidoquy
solsipsism
solitare
solitary
solitary confinement
solitude
solleret
solmization
solo
solo whist
soloist
solstice
solubility
solubilize
soluble
soluble glass
solus
solute
solution
solvable
solve
solvency
solvent
solvency
solvolysis
soma
somatic
somatic cell
somatist
somato-
somatology
somatplasm
somatoype
somber
sombrero
sombrous
some
somebody
someday
somehow
someone
someplace
somersault
somerset
something
sometime
sometimes
someway
somewhat
somewhere
somewise
somite
sommelier
somnambulate
somnambulation
somnambulism
somnificient
somniferous
somniloquy
somnolent
son
son of a bitch
son-in-law
sonant
sonar
sonata
sonata form
sonatina
sonde
sone
song
song and dance
song cycle
song form
song sparrow
song thrush
songbird
songful
songster
songstress
songwriter
sonic
sonic barrier
sonic boom
sonic depth finder
sonic mine
sonics
soniferous
sonnet
sonnet sequence
sonnetteer
sonny
sonobuoy
sonometer
sonorant
sonority
sonorous
soon
sooner
soot
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soothe
soothfast
soothsay
soothsayer
sooty
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sophism
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sophister
sophistic
sophisticate
sophisticated
sophistication
sophistry
sophomore
sophrosyne
sopor
soporific
sopping
soppy
soprano
soprano clef
sora
sorb
sorbitol
sorbose
sorcerer
sorcery
sordid
sordino
sore
sore throat
soredium
sorehead
sorely
sorghum
sorgo
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sororate
sororicide
sorority
sorosis
sorption
sorrel
sorrel tree
sorrow
sorry
sort
sort out
sortie
sortilege
sortition
sorus
sostenuto
sostenuto pedal
sot
soteriology
sotted
sottish
sotto voce
sou
sou'wester
souari nut
soubise
soubrette
soubriquet
souffle
sough
sought
sought-after
soul
soul mate
soul-searching
soulful
soulless
sound
sound barrier
sound effect
sound film
sound hole
sound man
sound out
sound ranging
sound shift
sound truck
sound wave
soundboard
sounder
sounding
sounding board
sounding lead
sounding line
sounding machine
soundless
soundproof
soup
soup kitchen
soup plate
soup-and-fish
soupspoon
soupy
sour
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
source
source book
sourdine
sourdough
sourpuss
soursop
sourwood
sousaphone
souse
soutache
soutane
souter
souterrain
south
south by east
south by west
south-southeast
south-southwest
southbound
southeast
southeast by east
southeast by south
southeaster
southeasterly
southeastward
southeastwardly
southeastwards
souther
southerly
southern
southern lights
southernly
southernmost
southing
southland
southpaw
southward
southwards
southwest
southwest by south
southwest by west
southwester
southwesterly
southwestward
southwestwardly
southwestwards
souvenir
sovereign
sovereignty
soviet
sovran
sow
sow bug
sow thistle
sowens
sox
soy
soy sauce
soya bean
soybean
soybean oil
sp.
sp. ht.
spa
space
space capsule
space flight
space heater
space lattice
space medicine
space probe
space station
space suit
space writer
space-time
spaceband
spacecraft
spaced out
spaceless
spaceman
spaceport
spaceship
spacesuit
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spacing
spacious
spade
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spadework
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spaetzle
spaghetti
spagyric
spahi
spake
spall
spallation
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span loading
span-new
spancel
spandex
spandrel
spang
spangle
spaniel
spank
spanker
spanking
spanner
spar
spar buoy
spar deck
spare
sparerib
sparge
sparid
sparing
spark
spark chamber
spark coil
spark gap
spark plug
spark transmitter
sparkler
sparkling plug
sparkle
sparkler
sparkling wine
sparks
sparling
sparoid
sparrow
sparrow hawk
sparrowgrass
sparry
sparse
sparteine
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spastic
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spate
spathe
spathic
spathose
spatial
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spatter
spatterdash
spatula
spavine
spavined
spawn
spay
speak
speak for
speak out
speak to
speak up
speakeasy
speaker
speaking
speaking trumpet
speaking tube
spear
spear grass
spear gun
spear side
spearhead
spearman
spearmint
spearwort
spec
spec.
special
special case
special committee
special court-martial
special delivery
special handling
special jury
special partner
special pleading
special privilege
special theory of relativity
specialism
specialist
specialistic
speciality
specialize
speciality
speciation
specie
species
specific
specific gravity
specific impulse
specific resistance
specific volume
specification
specify
specimen
speciosity
specious
speck
speckle
speckled trout
specs
spectacle
spectacled
spectacles
spectacular
spectator
spectatress
specter
spectra
spectral
spectre
spectrochemistry
spectrogram
spectrograph
spectroheliograph
spectrohelioscope
spectrometer
spectrophotometer
spectroradiometer
spectroscope
spectroscopy
spectrum
spectrum analysis
specular
speculate
speculation
speculative
speculator
speculum
speculum metal
speed
speech
speech community
speech island
speech organ
speechless
speechmaker
speechmaking
speed
speed demon
speed limit
speed up
speedball
speedboat
speedometer
speedway
speedwell
speedy
speiss
spelaean
speleology
spell
spell out
spellbind
spellbinder
spellbound
spelldown
speller
spelling
spelling bee
spelling book
spelling pronunciation
spelling reform
spelt
spelter
spelunker
spence
spencer
spend
spendable
spender
spending money
spendthrift
spent
speos
sperm
sperm oil
sperm whale
spermaceti
spermary
spermatic
spermatic cord
spermatic fluid
spermatid
spermatium
spermato-
spermatocyte
spermatogonium
spermatophore
spermatophyte
spermatozoid
spermatozoon
spermic
spermicide
spermine
spermiogenesis
spermogonium
spermophile
spermophyte
spermous
sperrylite
spessartite
spew
sphacelus
sphagnum
sphalerite
sphene
sphenic
spheno-
sphenogram
sphenoid
sphere
sphere of influence
spherical
spherical aberration
spherical angle
spherical coordinates
spherical geometry
spherical polygon
spherical trigonometry
sphericity
spherics
spheroid
spheroidal
spheroidicity
spherule
spherulite
sphere
sphincter
sphingosine
spinhx
sphinx moth
sphygmic
sphygmo-
sphygmograph
sphygmoid
sphygmomanometer
spic
spica
spicate
spiccato
spice
spiceberry
spicebush
spick-and-span
spiculate
spicule
spiculum
spicy
spider
spider crab
spider monkey
spider phaeton
spiderwort
spidery
spiegeleisen
spiel
spieler
spier
spiffing
spiffy
spigot
spike
spike heel
spike lavender
spikelet
spikenard
spiky
spile
spill
spill over
spillage
spillway
spilt
spin
spin out
spin-dry
spin-off
spinach
spinal
spinal canal
spinal column
spinal cord
spindle
spindle tree
spindlelegs
spindling
spindly
spindrift
spine
spinel
spinel ruby
spineless
spinescent
spinet
spiniferous
spinifex
spinnaker
spinner
spinneret
spinney
spinning
spinning jenny
spinning wheel
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spinster
spinthariscope
spinule
spiny
spiny anteater
spiny lobster
spiracle
spiraea
spiral
spiral galaxy
spiral staircase
spirant
spire
spirelet
spireme
spirillum
spirit
spirit level
spirit rapping
spirit writing
spirited
spiritism
spiritless
spiritoso
spirits of turpentine
spirits of wine
spiritual
spiritualism
spiritualist
spirituality
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spiritus asper
spirketing
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spirometer
spirt
spirula
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spit and polish
spit curl
spital
spitball
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spitfire
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spittle
spittle insect
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splashdown
splasher
splashy
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spleen
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splendor
splenectomy
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sponging house
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spongy
sponson
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spontaneity
spontaneous
spontaneous combustion
spontaneous generation
spontoon
spoof
spoofery
spook
spooky
spool
spoon
spoon-feed
spoonbill
spoondrift
spoonerism
spoonful
spooky
spoor
sporadic
sporangium
spore
sporocarp
sporocyst
sporocyte
sporogenesis
sporogonium
sporogony
sporophore
sporophyll
sporophyte
sporozoite
sporran
sport
sport shirt
sporting
sporting chance
sporting house
sportive
sports
sports car
sports jacket
sportscast
sportsman
sportmanship
sportswear
sportswoman
sporty
sporulate
sporule
spot
spot announcement
spot check
spot-weld
spotless
spotlight
spotted
spotted crake
spotted fever
spotter
spotty
spousal
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spout
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spraddle
sprag
sprain
sprang
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sprawl
spray
spray gun
spread
spread eagle
spread-eagle
spreader
spree
sprig
sprightly
spring
spring balance
spring chicken
spring fever
spring line
spring tide
spring-clean
springboard
springbok
springe
springer
springer spaniel
sputnik
sputter
sputum
spy
spy out
spyglass
sq.
sqq.
squab
squabble
squad
squad car
squadron
squalene
squalid
squall
squall line
squally
squalor
squama
squamation
squamosal
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squamulose
squander
square
square away
square bracket
square dance
square deal
square foot
square inch
square kilometer
square knot
square leg
square matrix
square measure
square meter
square mile
square number
square off
square piano
square root
square sail
square shooter
square-rigged
square-rigger
squarely
squarrose
squash
squash bug
squash racquets
squashy
squat
squatness
squatting
squatting sovereignty
squaw
squawk
squeak
squeaky
squeal
squeamish
squeegee
squeeze
squelch
squelteague
squib
squid
squiffy
squiggle
squilgee
squill
squinch
squint
squint-eyed
squinty
squire
squirearchy
squireen
squirm
squirmy
squirrel
squirrel cage
squirrel-tail grass
squirt
squirt gun
squirtling cucumber
squish
squishy
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stab
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staging
staging area
stagnant
stagnate
stagy
staid
stain
stained glass
stainless
stainless steel
stair
stair rod
staircase
stairhead
stairs
stairway
stairwell
stake
stake race
stakeout
stalactite
stalag
stalagmite
stale
stalemate
stalk
stalking-horse
stalky
stall
stall-feed
stallion angle
stallion
stalwart
stamen
stamin
stamina
staminody
stammel
stammer
stamp
stamp mill
stamp out
stamped
stamping ground
stance
stanch
stanchion
stand
stand by
stand down
stand for
stand oil
stand on
stand out
stand over
stand pat
stand up
stand-in
stand-up
standard
standard cost
standard deviation
standard gauge
standard of living
standard time
standard-bearer
standardize
standby
standee
standfast
standing
standing army
standing broad jump
standing committee
standing lug
standing order
standing rigging
standing wave
standoff
standoffish
standpipe
standpoint
standstill
stane
stang
stanhope
stank
stannary
stannic
stannite
stannum
stanza
stapes
staphylo-
staphylococcus
staphyloplasty
staphylorrhaphy
staple
stapler
star
star anise
star cloud
star drill
star grass
star sapphire
star shell
star-crossed
star-nosed mole
star-of-Bethlehem
star-shaped
star-spangled
star-studded
starboard
starch
starchy
stardom
stare
starfish
starflower
stark
stark-naked
starlet
starlight
starlike
starling
starred
starry
starry-eyed
start
start in
start off
start out
start up
starter
starting block
starting gate
startle
startling
starvation
starve
starveling
starwort
stash
stasis
stat.
statampere
statant
state
state bank
state capitalism
state medicine
state of war
state prison
state socialism
state trooper
state's evidence
statecraft
stated
statehood
stateless
stately
statement
stater
stateroom
states' rights
statesman
statesmanship
statfarad
static
static electricity
static tube
statics
station
station agent
station break
station house
station wagon
stationary
stationary engine
stationary wave
stationer
stationery
stationmaster
statism
statist
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statistical mechanics
statistician
statistics
stative
statocyst
statolatry
statolith
stator
statuary
statue
statued
statuesque
statuette
stature
status
status quo
status symbol
statutable
statute
statute book
statute law
statute mile
statute of limitations
statutory
statutory rape
statvolt
staunch
staurolite
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stave off
staves
stay
stay-at-home
staying power
stays
staysail
std.
stead
steadfast
steadfasting
steady
steady state
steak
steakhouse
steal
stealage
stealer
stealing
stealth
stealthy
steam
steam bath
steam engine
steam fitter
steam heat
steam heater
steam organ
steam point
steam room
steam shovel
steam turbine
steam up
steam whistle
steam-heated
steamboat
steamer
steamer chair
steamer rug
steamroller
steamship
steamtight
steamy
steapsin
stearic
stearic acid
stearin
stearoptene
steatite
steato-
steatopygia
stedfast
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steel
steel band
steel blue
steel engraving
steel guitar
steel mill
steel wool
steelhead
steelmaker
steels
steelwork
steelworker
steelworks
steelyard
steenbok
steep
steepen
steeple
steeplebush
steeplechase
steeplejack
steer
steerage
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steering committee
steering gear
steering wheel
steersman
steeve
stegodon
stegosaur
stein
steinbok
stela
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stellar
stellarator
stellate
stelliform
stellular
stem
stem turn
stemma
stemson
stemware
stench
stench bomb
stencil
steno-
stenograph
stenographer
stenography
stenopetalous
stenophagous
stenophyllous
stenosis
stenotype
stenotypy
stentor
stentorian
step
step down
step in
step rocket
step up
step-
step-up
stepbrother
stepchild
dame
daughter
dather
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dercoraceous
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erchemistry
erochrome
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erisomerism
erometry
erophonic
erophotography
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stickup
stickweed
sticky
sticky wicket
stickybeak
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stiffen
stile
stifling
stigma
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stigmatism
stigmatize
stilbestrol
stilbite
stile
stiletto
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still hunt
still life
still water
still-hunt
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stillbirth
stillborn
stilliform
stillness
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stilt
stilted
stimulant
stimulate
stimulative
stimulus
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stingaree
stinger
stinging hair
stinging nettle
stingo
stingy
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stink ball
stink bomb
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stinkhorn
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stinking smut
stinko
stinkpot
stinkstone
stinkweed
stinkwood
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stipend
stipendiary
stipitate
stipple
stipulate
stipulation
stipule
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stir up
stirk
stirpiculture
stirps
stirring
stirrup
stirrup cup
stirrup pump
stitch
stitching
stithy
stiver
stoa
stoat
stob
stochastic
stock
stock car
stock certificate
stock clerk
stock company
stock dividend
stock dove
stock exchange
stock farm
stock horse
stock in trade
stock market
stock option
stock raising
stock saddle
stock-still
stockade
stockbreeder
stockbroker
stockholder
stockinet
stocking
stocking cap
stockish
stockist
stockjobber
stockman
stockpile
stockroom
stocks
stocktaking
stocky
stockyard
stodge
stodgy
stogy
stoic
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stoichiometric
stoichiometry
stoicism
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stoke up
stokehold
stokehole
stoker
stole
stolen
stolid
stolon
stoma
stomach
stomach pump
stomach worm
stomachache
stomacher
stomachic
stomatal
stomatic
stomatitis
stomato-
streamline
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streamliner
streamway
streamy
street
street Arab
street certificate
street piano
streetcar
streetlight
streetwalker
strength
strengthen
strenuous
strep
strepitous
streptococcus
streptokinase
streptomycin
streptothricin
stress
stressful
stretch
stretcher
stretcher-bearer
stretchy
stretto
streusel
strew
stria
striate
striated
striation
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stricken
strickle
strict
striction
strictly
striction
stricture
stride
strident
stridor
stridulate
stridulous
strife
strigil
strobole
stroboscope
strobotron
strode
strohanoff
stroke
stroke play
stroll
stroller
strong
strong breeze
strong drink
strong gale
strong interaction
strong man
strong point
strong waters
strong-arm
strong-minded
strong-willed
strongbox
stronghold
strongroom
strontia
strontian
strontianite
strontium
strontium 90
strop
strophanthin
strophanthus
strophe
strophic
stroud
strove
strow
stroy
struck
struck measure
structural
structural formula
structural geology
structural linguistics
structural psychology
structural steel
structuralism
structure
strudel
struggle
struggle for existence
strum
struma
strumet
strung
strung out
strut
struthious
strutting
strychnic
strychnine
strychninism
stub
stub nail
stub tenon
stubbed
stubble
stubborn
stubby
stucco
stuccowork
stuck
stuck-up
stud
stud poker
studbook
studding
studdingsail
student
student teacher
studhorse
studied
studio
studio couch
studious
study
stuff
stuff gown
stuffed
stuffed shirt
stuffing
stuffing box
stuffy
still
stultify
stumble
stumbling block
subdivide
subdivision
subdominant
subdual
subduct
subdue
subdued
subedit
subeditor
subequatorial
suberic acid
suberin
subfamily
subfloor
subfusc
subgenus
subglacial
subgroup
subhead
subheading
subhuman
subinfeudate
subinfeudation
subirrigate
subito
subj.
subjacent
subject
subject matter
subjectify
subjection
subjective
subjective idealism
subjectivism
subjoin
subjoiner
subjugate
subjunction
subjunctive
subkingdom
sublapsarianism
sublease
sublet
sublieutenant
sublimate
sublimation
sublime
subliminal
sublimity
sublingual
sublittoral
sublunar
sublunary
submachine gun
submarginal
submarine
submarine chaser
submariner
submaxillary
submediant
submerge
submerged
submergible
submerse
submersed
submersible
submicroscopic
subminiature
subminiature camera
subminiaturize
submit
submissive
submit
submultiple
subnormal
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suborbital
suborder
subordinary
subordinate
subordinate clause
subordinating conjunction
suborn
suboxide
subphylum
subplot
subpoena
subprincipal
subreption
subrogate
subrogation
subroutine
subscapular
subscribe
subscript
subscription
subscription television
subsellium
subsequence
subsequent
subserve
subservience
subservient
subset
subshrub
subside
subsidence
subsidiary
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subsidiary company
subsidize
subsidy
subsist
subsistence
subsistence allowance
subsistence farming
subsistent
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subsoil
subsoil plow
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subsonic
subspecies
substage
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substandard
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substantialism
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substantiate
substantive
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substituent
substitute
substitution
substitutive
substrate
substratosphere
substratum
substructure
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subsumption
subtangent
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succor
succory
succotash
succubus
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three-legged race
three-master
three-mile limit
three-part time
three-phase
three-piece
three-ply
three-point landing
three-quarter
three-quarter nelson
three-quarter time
three-ring circus
three-square
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time clock
time constant
time deposit
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time draft
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time sharing
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tongue twister
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tornado
tornado lantern
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torpedo
torpedo boat
torpedo tube
torpedo-boat destroyer
torpedoman
torpid
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torque converter
torque wrench
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tortious
tortoise
tortoise-shell
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tortricid
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torture
torus
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tosspot
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total depravity
total eclipse
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totalitarianism
totality
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totalizer
totally
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touch football
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touch system
touch-and-go
touch-me-not
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touchdown	ouched
touchhole
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touchstone
touchwood
touchy
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town hall
town house
town meeting
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townsman
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towpath
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trotline	trotter	trotting race	rottyl	trou-de-loup
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.1

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turtleback
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twayblade	 tweak	 tweed	 tweedy	 teeny	 tweet	 tweeter	 tweezing	 tweezers
twelfth
two-color
two-cycle
two-dimensional
two-edged
two-faced
two-four time
two-handed
two-part time
two-party system
two-phase
two-piece
two-ply
two-seater
two-sided
two-spot
two-step
two-time
two-tone
two-up
two-way
two-wheeler
twofold
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ultrafilter
ultrahigh frequency
ultraism
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unit trust
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ups and downs
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upshot
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vascular
vascular tissue
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vasectomy
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vasodilator
vasoinhibitor
vasomotor
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<td>Device drivers</td>
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                  GL/glxt.h       Khronos
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*****************************************************************************
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include/GL/glxt.h
include/GL/wglext.h :

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jQuery UI v1.12.1

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  jar/org/springframework/core/ResolvableType.java
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  jar/org/springframework/core/BridgeMethodResolver.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/ConfigurableConversionService.java

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1.2184 jackson-dataformat-yaml 2.9.8
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1.2201 kerberos 1.19.2

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_creds.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego Mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/kgb5/error_tables/kgb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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dns.c - Recursive, Reentrant DNS Resolver.

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=head1 NAME

IO::Socket - Object interface to socket communications
**SYNOPSIS**

```perl
use IO::Socket;
```

**DESCRIPTION**

C<IO::Socket> provides an object interface to creating and using sockets. It is built upon the L<IO::Handle> interface and inherits all the methods defined by L<IO::Handle>.

C<IO::Socket> only defines methods for those operations which are common to all types of socket. Operations which are specified to a socket in a particular domain have methods defined in sub classes of C<IO::Socket>.

C<IO::Socket> will export all functions (and constants) defined by L<Socket>.

**CONSTRUCTOR**

```perl
=item new ( [ARGS] )
```

Creates an C<IO::Socket>, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs. C<new> only looks for one key C<Domain> which tells `new` which domain the socket will be in. All other arguments will be passed to the configuration method of the package for that domain, See below.

**NOTE**

As of VERSION 1.18 all IO::Socket objects have autoflush turned on by default. This was not the case with earlier releases.

**METHODS**

See L<perlfunc> for complete descriptions of each of the following supported C<IO::Socket> methods, which are just front ends for the corresponding built-in functions:

```perl
socket
socketpair
bind
listen
```
accept
send
recv
peername (getpeername)
sockname (getsockname)
shutdown

Some methods take slightly different arguments to those defined in L<perlfunc>
in attempt to make the interface more flexible. These are

=over 4

=item accept([PKG])

perform the system call C<accept> on the socket and return a new
object. The new object will be created in the same class as the listen
socket, unless C<PKG> is specified. This object can be used to
communicate with the client that was trying to connect.

In a scalar context the new socket is returned, or undef upon
failure. In a list context a two-element array is returned containing
the new socket and the peer address; the list will be empty upon
failure.

The timeout in the [PKG] can be specified as zero to effect a "poll",
but you shouldn't do that because a new IO::Select object will be
created behind the scenes just to do the single poll. This is
horrendously inefficient. Use rather true select() with a zero
timeout on the handle, or non-blocking IO.

=item socketpair(DOMAIN, TYPE, PROTOCOL)

Call C<socketpair> and return a list of two sockets created, or an
empty list on failure.

=back

Additional methods that are provided are:

=over 4

=item atmark

True if the socket is currently positioned at the urgent data mark,
false otherwise.

use IO::Socket;
my $sock = IO::Socket::INET->new('some_server');
$sock->read($data, 1024) until $sock->atmark;

Note: this is a reasonably new addition to the family of socket functions, so all systems may not support this yet. If it is unsupported by the system, an attempt to use this method will abort the program.

The atmark() functionality is also exportable as sockatmark() function:

use IO::Socket 'sockatmark';

This allows for a more traditional use of sockatmark() as a procedural socket function. If your system does not support sockatmark(), the C<use> declaration will fail at compile time.

=item connected

If the socket is in a connected state, the peer address is returned. If the socket is not in a connected state, undef is returned.

Note that connected() considers a half-open TCP socket to be “in a connected state”. Specifically, connected() does not distinguish between the B<ESTABLISHED> and B<CLOSE-WAIT> TCP states; it returns the peer address, rather than undef, in either case. Thus, in general, connected() cannot be used to reliably learn whether the peer has initiated a graceful shutdown because in most cases (see below) the local TCP state machine remains in B<CLOSE-WAIT> until the local application calls shutdown() or close(); only at that point does connected() return undef.

The "in most cases" hedge is because local TCP state machine behavior may depend on the peer's socket options. In particular, if the peer socket has SO_LINGER enabled with a zero timeout, then the peer's close() will generate a RST segment, upon receipt of which the local TCP transitions immediately to B<CLOSED>, and in that state, connected() I<will> return undef.

=item protocol

Returns the numerical number for the protocol being used on the socket, if known. If the protocol is unknown, as with an AF_UNIX socket, zero is returned.

=item sockdomain

Returns the numerical number for the socket domain type. For example, for an AF_INET socket the value of &AF_INET will be returned.

=item sockopt(OPT [, VAL])
Unified method to both set and get options in the SOL_SOCKET level. If called with one argument then getsockopt is called, otherwise setsockopt is called.

=item getsockopt(LEVEL, OPT)

Get option associated with the socket. Other levels than SOL_SOCKET may be specified here.

=item setsockopt(LEVEL, OPT, VAL)

Set option associated with the socket. Other levels than SOL_SOCKET may be specified here.

=item socktype

Returns the numerical number for the socket type. For example, for a SOCK_STREAM socket the value of &SOCK_STREAM will be returned.

=item timeout([VAL])

Set or get the timeout value (in seconds) associated with this socket. If called without any arguments then the current setting is returned. If called with an argument the current setting is changed and the previous value returned.

=back

=head1 LIMITATIONS

On some systems, for an IO::Socket object created with new_from_fd(), or created with accept() from such an object, the protocol(), sockdomain() and socktype() methods may return undef.

=head1 SEE ALSO

L<Socket>, L<IO::Handle>, L<IO::Socket::INET>, L<IO::Socket::UNIX>

=head1 AUTHOR

Graham Barr. atmark() by Lincoln Stein. Currently maintained by the Perl Porters. Please report all bugs to <perlbug@perl.org>.

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=cut

Found in path(s):
  * /opt/cola/permits/1277991229_1652700624.404779/0/perl-IO-1.38-420.el8.x86_64.src.rpm-cosi-expand-archive-vApECGyf/usr/lib64/perl5/IO/Socket.pm
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=head1 NAME

IO::Socket::UNIX - Object interface for AF_UNIX domain sockets

=head1 SYNOPSIS

use IO::Socket::UNIX;

my $SOCK_PATH = "$ENV{HOME}/unix-domain-socket-test.sock";

# Server:
my $server = IO::Socket::UNIX->new(
  Type => SOCK_STREAM(),
  Local => $SOCK_PATH,
  Listen => 1,
);

my $count = 1;
while (my $conn = $server->accept()) {
  $conn->print("Hello " . ($count++) . "\n");
}

# Client:
my $client = IO::Socket::UNIX->new(
  Type => SOCK_STREAM(),
  Peer => $SOCK_PATH,
);

  # Now read and write from $client

=head1 DESCRIPTION
C<IO::Socket::UNIX> provides an object interface to creating and using sockets in the AF_UNIX domain. It is built upon the L<IO::Socket> interface and inherits all the methods defined by L<IO::Socket>.

=head1 CONSTRUCTOR

=over 4

=item new ( [ARGS] )

Creates an C<IO::Socket::UNIX> object, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs.

In addition to the key-value pairs accepted by L<IO::Socket>, C<IO::Socket::UNIX> provides.

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<tr>
<th>Type</th>
<th>Type of socket (eg SOCK_STREAM or SOCK_DGRAM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local</td>
<td>Path to local fifo</td>
</tr>
<tr>
<td>Peer</td>
<td>Path to peer fifo</td>
</tr>
<tr>
<td>Listen</td>
<td>Queue size for listen</td>
</tr>
</tbody>
</table>

If the constructor is only passed a single argument, it is assumed to be a C<Peer> specification.

If the C<Listen> argument is given, but false, the queue size will be set to 5.

=back

=head1 METHODS

=over 4

=item hostpath()

Returns the pathname to the fifo at the local end

=item peerpath()

Returns the pathname to the fifo at the peer end

=back

=head1 SEE ALSO

L<Socket>, L<IO::Socket>

=head1 AUTHOR
Graham Barr. Currently maintained by the Perl Porters. Please report all bugs to <perlbug@perl.org>.

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=head1 NAME

IO::Socket::INET - Object interface for AF_INET domain sockets

=head1 SYNOPSIS

use IO::Socket::INET;

=head1 DESCRIPTION

C<IO::Socket::INET> provides an object interface to creating and using sockets in the AF_INET domain. It is built upon the L<IO::Socket> interface and inherits all the methods defined by L<IO::Socket>.

=over 4

=item new ( [ARGS] )

Creates an C<IO::Socket::INET> object, which is a reference to a newly created symbol (see the C<Symbol> package). C<new> optionally takes arguments, these arguments are in key-value pairs.

In addition to the key-value pairs accepted by L<IO::Socket>, C<IO::Socket::INET> provides.
PeerAddr  Remote host address          <hostname>[:<port>]
PeerHost  Synonym for PeerAddr
PeerPort  Remote port or service      <service>[(<no>)] | <no>
LocalAddr Local host bind address     hostname[<port>]
LocalHost Synonym for LocalAddr
LocalPort Local host bind port        <service>[(<no>)] | <no>
Proto     Protocol name (or number)   "tcp" | "udp" | ...
Type      Socket type                SOCK_STREAM | SOCK_DGRAM | ...
Listen    Queue size for listen
ReuseAddr Set SO_REUSEADDR before binding
Reuse     Set SO_REUSEADDR before binding (deprecated, prefer ReuseAddr)
ReusePort Set SO_REUSEPORT before binding
Broadcast Set SO_BROADCAST before binding
Timeout   Timeout value for various operations
MultiHomed Try all addresses for multi-homed hosts
Blocking  Determine if connection will be blocking mode

If C<Listen> is defined then a listen socket is created, else if the
socket type, which is derived from the protocol, is SOCK_STREAM then
connect() is called. If the C<Listen> argument is given, but false,
the queue size will be set to 5.

Although it is not illegal, the use of C<MultiHomed> on a socket
which is in non-blocking mode is of little use. This is because the
first connect will never fail with a timeout as the connect call
will not block.

The C<PeerAddr> can be a hostname or the IP-address on the
"xx.xx.xx.xx" form. The C<PeerPort> can be a number or a symbolic
service name. The service name might be followed by a number in
parenthesis which is used if the service is not known by the system.
The C<PeerPort> specification can also be embedded in the C<PeerAddr>
by preceding it with a ":".

If C<Proto> is not given and you specify a symbolic C<PeerPort> port,
then the constructor will try to derive C<Proto> from the service
name. As a last resort C<Proto> "tcp" is assumed. The C>Type
parameter will be deduced from C<Proto> if not specified.

If the constructor is only passed a single argument, it is assumed to
be a C<PeerAddr> specification.

If C<Blocking> is set to 0, the connection will be in nonblocking mode.
If not specified it defaults to 1 (blocking mode).

Examples:
NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

As of VERSION 1.18 all IO::Socket objects have autoflush turned on by default. This was not the case with earlier releases.

NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE

=item sockaddr ()

Return the address part of the sockaddr structure for the socket

=item sockport ()

Return the port number that the socket is using on the local host

=item sockaddr ()

Return the address part of the sockaddr structure for the socket in a text form xx.xx.xx.xx

=back

=head2 METHODS

=over 4

=item sockaddr ()

Return the address part of the sockaddr structure for the socket

=item sockport ()

Return the port number that the socket is using on the local host

=item sockaddr ()

Return the address part of the sockaddr structure for the socket in a text form xx.xx.xx.xx

=back
Return the address part of the sockaddr structure for the socket on
the peer host

=item peerport ()

Return the port number for the socket on the peer host.

=item peerhost ()

Return the address part of the sockaddr structure for the socket on the
peer host in a text form xx.xx.xx.xx

=head1 SEE ALSO

L<Socket>, L<IO::Socket>

=head1 AUTHOR

Graham Barr. Currently maintained by the Perl Porters. Please report all
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=head1 NAME

IO::Dir - supply object methods for directory handles

=head1 SYNOPSIS

use IO::Dir;
$d = IO::Dir->new(".");
if (defined $d) {
    while (defined($_ = $d->read)) { something($_); }
    $d->rewind;
    while (defined($_ = $d->read)) { something_else($_); }
    undef $d;
}

tie %dir, 'IO::Dir', ".";
foreach (keys %dir) {
    print $_, " ", $dir{$_}->size,"\n";
}

=head1 DESCRIPTION

The C<IO::Dir> package provides two interfaces to perl's directory reading
routines.

The first interface is an object approach. C<IO::Dir> provides an object
constructor and methods, which are just wrappers around perl's built in
directory reading routines.

=over 4

=item new ( [ DIRNAME ] )

C<new> is the constructor for C<IO::Dir> objects. It accepts one optional
argument which, if given, C<new> will pass to C<open>
The following methods are wrappers for the directory related functions built into perl (the trailing 'dir' has been removed from the names). See L<perlfunc> for details of these functions.

=item open ( DIRNAME )

=item read ()

=item seek ( POS )

=item tell ()

=item rewind ()

=item close ()

C<IO::Dir> also provides an interface to reading directories via a tied hash. The tied hash extends the interface beyond just the directory reading routines by the use of C<lstat>, from the C<File::stat> package, C<unlink>, C<rmdir> and C<utime>.

=item tie %hash, 'IO::Dir', DIRNAME [, OPTIONS ]

The keys of the hash will be the names of the entries in the directory. Reading a value from the hash will be the result of calling C<File::stat::lstat>. Deleting an element from the hash will delete the corresponding file or subdirectory, provided that C<DIR_UNLINK> is included in the C<OPTIONS>.

Assigning to an entry in the hash will cause the time stamps of the file to be modified. If the file does not exist then it will be created. Assigning a single integer to a hash element will cause both the access and modification times to be changed to that value. Alternatively a reference to an array of two values can be passed. The first array element will be used to set the access time and the second element will be used to set the modification time.

=head1 SEE ALSO
L<File::stat>

=head1 AUTHOR

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1.2216 flyway-core 1.1

1.2217 resteasy-jackson-provider 2.3.7.Final

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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